

MARX'S CAPITAL IS THERMODYNAMICS

Marx's Mathematical Model of CAPITAL

Ivan Bourbaki

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Marx's capital is thermodynamics

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Book 1

Ivan Bourbaki

**The book is dedicated to a WOMAN -
the Great Goddess of humanity.
The woman saved us all.**

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Abstract mathematical dialectics of Hegel has been created.

Abstract dialectical pairs A-B and the multiplication operation for them are introduced. With the help of Hegel's mathematical dialectics, it was possible to prove that Marx's philosophy is correct.

And it was possible to create a mathematical model of Marx's CAPITAL. Conclusions:

Marx's Capital is THERMODYNAMICS;

The law of value is the Mendeleev-Clapeyron equation; A capitalist enterprise is a heat engine with a Carnot cycle.

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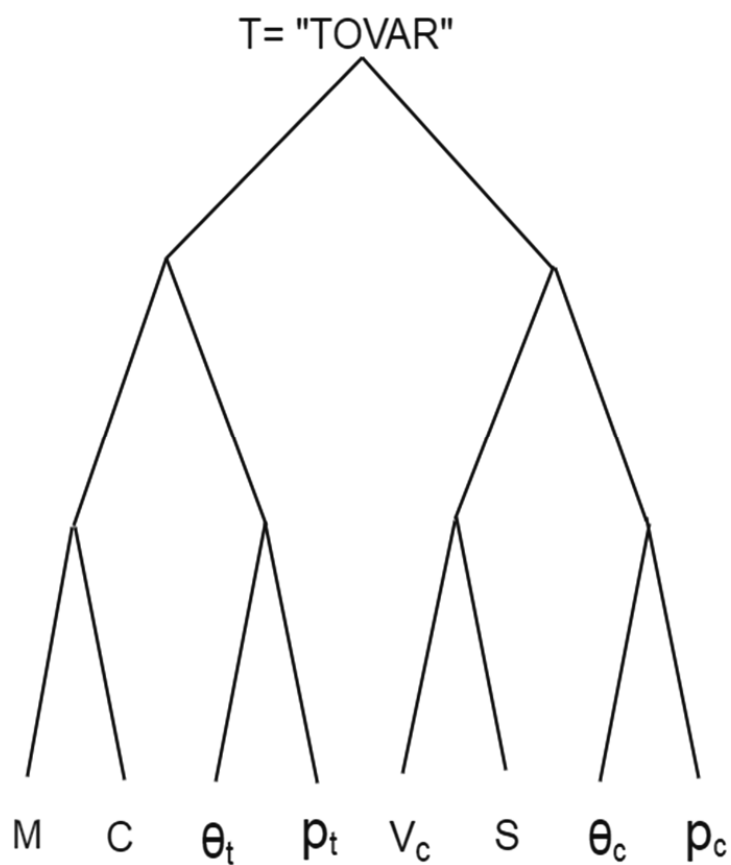
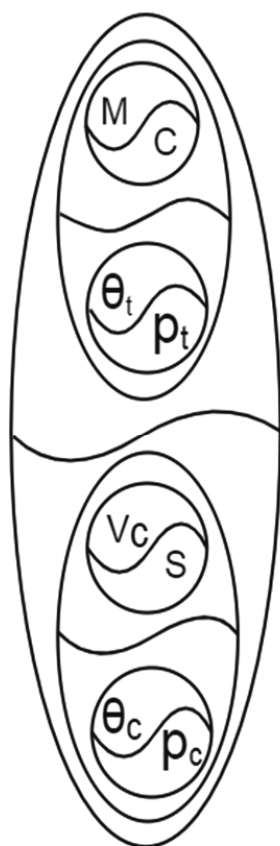
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Formula commodity and its graph.

Commodity by Russian the TOVAR. Therefore, the product is designated by the letter T, and not by the letter C.



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Letter

Dear friend!

The team of Russian mathematicians created a mathematical model of MARX's CAPITAL (parts). The task of turning CAPITAL into a mathematical model was set by Marx. Furthermore, he even tried to create it. For this purpose he studied the works of the great mathematicians – Lagrange and others. There is a whole book of Marx's mathematical manuscripts.

Thus, Marx's CAPITAL is not a political book. Marx's CAPITAL is a mathematical model of the world capitalist economy (CALCULATION SCHEMES OF MARX).

Marx believed that his work would be able to predict the date of the next global crisis, and it would only be necessary to put statistical data of the world economy into the mathematical model. And that is true. The mathematical model will really be able to predict the date of the next global crisis. Marxism is a science, because Marxism is a precise mathematical model of capitalist society.

What was the most difficult part of our work? The most difficult thing was to work not with formulas, but with axioms.

1. The authors first gave the axioms of political economy.
2. The authors first introduced the FUNDAMENTAL CONSTANTS of the political economy of capitalism (and communism, not socialism).
3. Any science can be considered a fundamental science only after there will be FUNDAMENTAL CONSTANTS and AXIOMS in it.

THE MAIN RESULTS OF THE AUTHORS

1. The word 'VALUE' occurs in Marx's CAPITAL many times and in different situations. This uncertainty leads to logical contradictions. To resolve these contradictions, the authors did the following:
 - a) Marx's categories were written in the form of VECTORS.
 - b) It turned out that only the EIGHT-DIMENSIONAL SPACE OF CATEGORIES allows us to present the entire Marx's CAPITAL without metaphysical, i.e., insoluble contradictions. And the authors' work is an EIGHT-DIMENSIONAL mathematical MODEL of the Marx's CAPITAL.
2. The global LAW OF VALUE turned out to be the ideal gas law from the theory of gases.
3. Marx's CAPITAL is the THERMODYNAMICS of political economy. And it would be more correct to call Marx's CAPITAL the political economic thermodynamics or thermodynamics of CAPITAL. Marx described various thermodynamic processes in CAPITAL, he fixed some variables and modified others.
4. The capitalist firm turned out to be a heat engine of a new, unknown type, which the authors called the Karl Marx's heat engine.
5. Marx's heat engine operates in a Carnot cycle.
6. The local law of value acts in the tangent space of the manifold of states.
7. Entropy is the USE VALUE of Marx.

8. CONSUMER MASS and COMMODITY MASS turned out to be different categories.
9. Consumer mass is THE HEAT CAPACITY OF THE MARKET, i.e., the total heat capacity of the thermodynamic system.

10. COMMODITY MASS is tons of wheat or amount of commodities.

The theorem. Buyers believe that the market sells the COMMODITY MASS. However, it is an illusion.

It turned out that the CONSUMER MASS (total heat capacity) is sold on the market. This means that buyers pay not for the COMMODITY MASS, but for the CONSUMER MASS.

This illusion was discovered by Marx. Marx called it COMMODITY-MONEY FETISHISM. The fetish is an inverting lens that is put on the eyes and brains of bourgeois theorists.

11. The authors' mathematical model made it possible to create a rigorous mathematical theory. COMMODITY-MONEY FETISHISM OF MARX. In fact, there is something more: the mathematical model made it possible to create a formalized THEORY OF FETISHISM and to give a classification of various fetishistic theories.

The most general theory of THING FETISHISM was created by the great Hegel. The authors applied it and described it in detail. On the bourgeois theoretics and their pseudoscience of economic physics

12. The theorists of capitalism created the science of ECONOMIC PHYSICS. Thousands of articles and many books were published on this science. There were even the world symposiums. The discovery of this science was grandiose, but then there was silent as the grave. It turned out that this science cannot carry out ANY REAL ECONOMIC CALCULATION.

13. The analysis of the authors showed that all calculations of ECONOMIC PHYSICISTS are false and give false numerical data. Why? The axioms of this bourgeois pseudoscience are false.

14. Question. Is it possible that some of the results of bourgeois ECONOMIC PHYSICS are correct?

Let's answer the question with a question: can an optical lens turn over only one thing and not all (at the same position)? It cannot.

Answer. A FETISHIST LENS works in exactly the same way as an optical lens. THE FETISHIST LENS turns EVERYTHING UPSIDE DOWN! And it means that bourgeois ECONOMIC PHYSICS cannot give any correct calculation or correct conclusion. All the achievements of this science are inverted and false. Moreover, the economic scientists stand upside down, but they do not notice this.

15. From the very beginning of our work, we knew that ECONOMIC PHYSICS was created long ago and is called Marx's CAPITAL.

16. The first axiom of economic physics belongs to the great Friedrich Engels. Here it is. The axiom of Engels. MAN is a statistical ATOM OF HISTORY.

The great Engels used this axiom to justify the existence of historical laws.

Marx's CAPITAL is built on the analogy of a man and an electron or an atom.

WHAT NEXT?

The authors have created a mathematical model of not all of Marx's CAPITAL. Mortals cannot do that. Marx's CAPITAL is the greatest scientific work and scientific discovery in the history of mankind accomplished by ONE PERSON (two).

Marx's CAPITAL is more complicated than the theory of relativity and quantum mechanics combined.

Example. It is quite possible to create a QUANTUM MODEL OF MARX'S CAPITAL, and we have shown this in our work.

The authors created a mathematical model of only one part of Marx's CAPITAL, but the most important part of the work.

AXIOMATIZATION and EIGHT-DIMENSIONAL SPACE MODEL allowed us to precisely and UNAMBIGUOUSLY define all categories of Marx's political economy. So now it is possible to build A COMPLETE MATHEMATICAL MODEL OF MARX'S CAPITAL.

However, for this we need brilliant mathematicians and physicists. Marx's CAPITAL is not for inexperienced researchers.

Therefore, the authors ask to transfer this work to mathematicians, physicists, computer scientist, and technicians.

MATHEMATICIANS and PHYSICISTS need to create a TEAM to build a complete mathematical model of Marx's CAPITAL. The strength of the authors is gone.

Dear readers and publishers!

This book is a communist (neither socialist nor capitalist) form of ownership. In other words, it is the NATIONWIDE form of ownership, it belongs to all mankind. It means:

1. Everyone can translate this book into any languages and publish it and make a profit.
2. No one can forbid other people to publish this book.

The authors.

Preface

THE SECOND COMING OF KARL MARX

The situation in political economy is the same as it was in Maxwell's time. Faraday is the author of the theory of the electromagnetic field. He discovered the most important laws of electrodynamics. And Maxwell turned Faraday's theory into his equations.

Marx is Faraday in political economy. But the left-wing politics did not find its own Maxwell.

THE MYSTERY OF HISTORY

Karl Marx is the unknown leader of mankind. The party pseudonym is ZEUS! Marx's CAPITAL is a grandiose mathematical model of the world capitalist economy. Marx believed that his work would be able to predict the date and scale of a new world crisis. And so it is. All that is needed is to put all the basic data of the world economy in the Marx's CAPITAL.

Our work has shown that Marx's CAPITAL is a logical thermodynamic system. And the work of Marx is more correctly called "THERMODYNAMICS OF CAPITAL" or political economic thermodynamics.

Our main results are as follows:

1. It turns out that Karl Marx's LAW OF VALUE is the MENDELEEV-CLAPEYRON EQUATION.

2. It turns out that the capitalist enterprise is a heat engine operating on the CARNOT cycle.

Theorem. The thermal efficiency of the Carnot cycle and the Marx profit rate are the same formula:

$$\theta = \frac{T_1 - T_2}{T_2} = \frac{m}{c + v}.$$

Bourgeois scientists have discovered a new science, it is ECONOMIC PHYSICS. But they did not make any real calculations. They cannot predict world crises, and crises are objective. Bourgeois scientists carry out all calculations, taking into account only money. And money is just a superstructure over time. It is impossible to understand the essence of political economy by studying only the superstructure.

The real ECONOMIC PHYSICS is Marx's CAPITAL. Economic physics as a science was created long ago by Karl Marx. And the main idea of this science is that "Man is the statistical atom of history", which belongs to Friedrich Engels (Dialectics of Nature).

The Germans and Vikings have a legend about the second coming of their pagan deities. And that hour has come. Zeus promised to return and it is his second coming!

This book is written for physicists of quantum mechanics, thermodynamic physicists, mathematicians and logicians. Only they are able to create a complete mathematical model of Marx's Capital. And our work makes it easier for them.

Category table in Russian and English	
Market	рынок
Commodity	товар
Commodities	товары
Goods	Товар (редко)
Price	Цена 500 раз
Money	деньги
Small-scale market	Мелкотоварный рынок
Producer	Производитель
A small-scale producer	Мелко-товарник
VALUE (а не COST)	Стоимость
use value	Потребительская стоимость
Consumer	Потребитель
The law of value	Закон стоимости
Surplus-Value	Прибавочная стоимость
Labour	Труд
Labour value	Трудовая стоимость
Labour hour [Lh]	Трудовой час.
Labour theory of value	Трудовая теория стоимости
Hired worker	Наемный рабочий
Labour hours [Lh]	Трудовые часы
Labour-power (или Labour-Power)	Рабочая сила
Productivity of labour	Производительность труда
Intensity	Интенсивность труда
Power of Labour	Сила труда
A quantity of labour	Количество труда
Concrete labour	Конкретный труд
Abstract labour	Абстрактный труд
Mass	Масса
Demand and supply	Предложение и спрос
Law of supply and demand	Закон спроса и предложения
Thing	Вещь (философская категория)
Relation	Отношение
Thing fetishism	Вещевой фетишизм
Thing commodity-money fetishism	Вещевой товаро-денежный фетишизм
Essence and Phenomenon	Сущность и Явление
Marx's theory of alienation	Теория отчуждения Маркса
Alienation	Отчуждение
Contradictions	Противоречие
Treasurs	Сокровища
The equilibrium market	Равновестный рынок
Equilibrium thermodynamics	Равновесная термодинамика
Equations of state of an ideal gas	Уравнение состояния идеального газа
The ideal gas law	Общее газовое уравнение
seller	Продавец
buyer	покупатель
Consumer	Потребитель

assumption	Предположения\Гипотеза\Постулат
damnation	Проклятье
harvest	Урожай
the dialectical pair	Диалектическая пара
pair	пара
The embryo	Зародыш
embryonic categories	Зародышевые, эмбриональные категории
Maxwell's equations	стройные уравнения
leader	вождь
Mankind\humanity	человечество
Left-wing politics	левого движения
thermal efficiency	Термический КПД
the Carnot cycle	цикла Карно
the Marx rate of profit	норма прибыли Маркса
binary graph	двоичный граф
phenomenon	явление
MIND	РАЗУМ
FAITH	ВЕРА
aim	цель
Minimal genome	минимальный геном
TRANSITION	переход
space	пространство
Attention	Внимание
Definition	ОПРЕДЕЛЕНИЕ
Note	Замечание
four-dimensional	четырёхмерном
exchange value	меновая стоимость
degrees of freedom	степени свободы
consequence	последствие
product	Произведение (результат умножения)
after-market	Вторичный рынок
the first coming of the market	Первое пришествие рынка
volume	Объем
worker	Рабочий (человек)
thermal energy	Тепловая энергия
thermal mass	термическая масса
heat capacity	теплоемкость
gold bar	слиток золота
Pressure	Давление
COMMAND	приказ
labour inputs	Трудозатраты
unit values	единичная величина
the ideal gas law	уравнение Менделеева-Клайперона
the gold fundamental constant of value	золотая фундаментальная констант стоимости
living	живой
wage	Зарплата (оплата за труд)
inverting pair	переворачивание пары
migrant worker	гастарбайтер

heat-insulating	теплоизоляционный
accumulator	накопитель
world market	мировой рынок
labour penny	Трудовая копейка
refrigerator	холодильник
heater	нагреватель
enhancer	увеличитель
reductor	уменьшитель
oscillation	колебание
labour time	Рабочее время
model theory	теория моделей
mass of commodities	Товарная масса
machines	станки
Food products	продукты
sector	отрасль
Engines	машины
tax	пошлина
Topos (topoi)	Топос (топосы)
Set theory	Теория множеств
Set	Множество
Mappings	отображения
Totality	Совокупность
setback	тормоз
Control theory	Теория управления
ALLEGEDLY	ЯКОБЫ
division of labour	разделение труда
creativity	Творчество
Emancipation of LABOUR	Освобождение труда
Monocracy	Единоличие
The global commune	Общенарод
Withering away	Отмирание
Communard movement	Коммунарское движение
Uprising of the idea	Восстание идеи
The law of TIME REVERSAL	Закон обращения времени
Theory of inversion	Теория обращения

Chapter I. Formalization of Hegel’s dialectic.

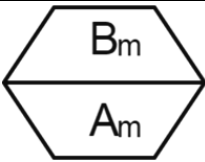
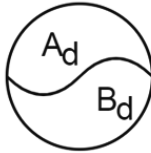
§ 1.1. Multiplication of dialectical pairs

Hegel, Marx, Engels, Lenin are the greatest LOGICIANS, they are mathematicians. They derive axioms and prove theorems. Therefore, the formalization of their work was the main task of the day. The authors began the formalization with the Hegelian dialectic.

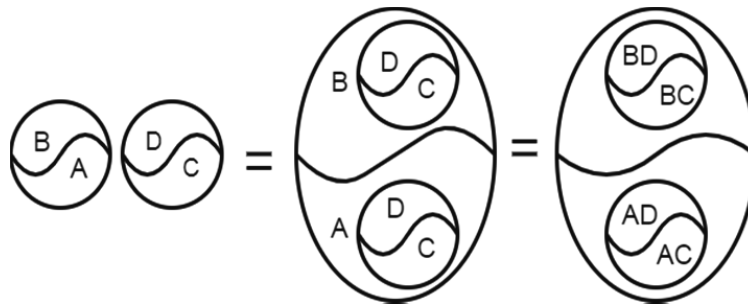
The task of formalizing Hegel’s dialectics and turning it into mathematical logic was set by V.I. Lenin.

And this is no coincidence. Lenin’s father, Ilya Nikolaevich Ulyanov, is a candidate of physical and mathematical sciences. He is a student of the great mathematician Nikolai Ivanovich Lobachevsky, the creator of non-Euclidean geometry.

The results of the formalization of dialectics are presented in the authors’ book “Mathematized dialectics of Hegel”. Here we present small fragments of this book.

Philosophy	
Metaphysics	Dialectics
Constant categories, “dead”	Function categories, “living”
Merit of the authors	
Instead of concrete pairs such as essence – phenomenon or form – body, the authors introduced abstract pairs $A - B$, $C - D$. And all the laws of Hegel’s philosophy set out in the abstract form with abstract pairs.	
Results	
If you substitute specific pairs, such as mind – faith, form – body, into the abstract theorems, you can get all of Hegel’s theorems.	
Visualization of Hegel’s philosophy. Authors introduced pictures of pairs	
Metaphysical pair	Dialectical pair
	
Purpose of work	
The authors introduced the multiplication operations of metaphysical and dialectical pairs. Purpose: to get all of Hegel’s great theorems by multiplying dialectical pairs. The authors put triadic indices to all Hegel’s categories. It is impossible to study Hegel’s books without triadic indices.	

Dialectical pairs are multiplied as follows:



For each complex pair, a corresponding binary graph is constructed.

Why is philosophy a complex science?

Answer. Multiplication of dialectical pairs in philosophy is a non-commutative operation.

Example. The problem is described by four pairs. Rearranging the factors, we get $4!=24$ different products and 24 graphs of the fourth order. If you connect 24 graphs into one super graph, this super graph will give a complete solving.

New problem: there are not enough Russian or English words to describe permutations of multipliers. It is necessary to create a new mathematical language for Hegel's logic.

Hegel's theory of TRANSITIONS.

Faraday's great law of electromagnetic induction is a transition: magnetism-electricity.

The laws of genetics are the transition: CONTINUOUS (evolution) – DISCRETE (genes).

The main theorem of Hegel's theory of TRANSITION.

The transition of the categories of an abstract dialectical pair into each other is always a GREAT LAW, always a great discovery.

Wikipedia article. Minimal genome.

Craig Venter and the team of approximately 20 scientists studied the bacterium *Mycoplasma genitalium*. It contains 517 genes. Scientists turned off the genes of this bacterium one by one. They found that 265–350 genes are vital. Thus, a bacterium with a minimal genome was synthesized. This work is an outstanding discovery. It will provide a solution to the greatest problem of our time: "How did life begin on Earth?"

The problem of creating a MINIMAL political economy. The law of the unity of the world. This requires:

- 1) to create a model of Marx's "CAPITAL" with a minimum number of categories.
- 2) to combine all categories into dialectical pairs.

Synonyms must be destroyed. Political economy as a humanities also must be destroyed and turn it into a mathematical science. This work is devoted to a partial solution of this complex problem. The objective is to automate the inference of all categories of Marx's CAPITAL.

There are two different theories in Marx's CAPITAL.

Theory No.1. Evolutionary theory. This theory answers the question: "How were the categories born?". Marx gives an example of the birth of the category "value". He considers the embryonic forms of value: "The relative, equivalent, universal forms of value". The use of the Hegel's triad is mandatory here.

Theory No. 2. Mathematical model. All his categories were born. Evolution is complete.

And it is possible to create a mathematical model. These two theories must not be confused. The same words in these two theories may have different meanings. It is better not to consider evolutionary theory when modeling Marx's CAPITAL.

§ 1.2. The two-dimensional space of Marx categories Ω_2 is unusable to build a consistent theory.

We consider sequentially two-dimensional, four-dimensional, eight-dimensional spaces of Marx's categories. But there is no evolution:

two – dimensional \rightarrow four – dimensional \rightarrow eight – dimensional *no*.

From the very beginning, we consider the space category to be eight-dimensional. A four-dimensional space is a compressed image of an eight-dimensional space.

Here we construct a two-dimensional space category Ω_2 .

Definition. The category “labour” is considered a scalar. The category “labour” is an auxiliary category. It is not a vector name \overrightarrow{LABOUR} .

Definition. There is a pair: $\begin{pmatrix} \text{concrete} \\ \text{absract} \end{pmatrix} = \begin{pmatrix} k \\ a \end{pmatrix}$. Marx deduces the main categories of political economy with this pair.

Attention. The *concrete* category name is k , not c .

Definition. The vector \overrightarrow{LABOUR} is the following vector:

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} \text{concrete} \\ \text{absract} \end{pmatrix} * \text{labour} = \begin{pmatrix} \text{concrete labour} \\ \text{absract labour} \end{pmatrix} = \begin{pmatrix} Lk \\ La \end{pmatrix}$$

Marx's first order theorem:

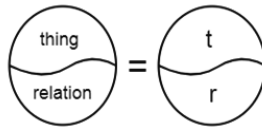
- 1) Concrete labour creates use value
- 2) Abstract labour creates value

At first glance, everything is correct. But indeed the two-dimensional theory is a contradictory theory and should be discarded.

§ 1.3. The four-dimensional space of Marx's categories Ω_4 . First order laws.

§ 1.3.1. Product of dialectical pairs

Dialectical pair of Hegel: THING-RELATION:



Multiplying the thing-relation pair by the concrete-abstract pair, we get:

$$\begin{pmatrix} \text{thing} \\ \text{relation} \end{pmatrix} * \begin{pmatrix} \text{concrete} \\ \text{absract} \end{pmatrix} = \begin{pmatrix} t \\ r \end{pmatrix} * \begin{pmatrix} k \\ a \end{pmatrix} = \begin{pmatrix} tk \\ ta \\ rk \\ ra \end{pmatrix}.$$

§ 1.3.2. The appearance of a four-dimensional vector \overrightarrow{LABOUR} .

Definition. The category “labour” is an auxiliary category, it is considered a scalar.

Definition. The vector \overrightarrow{LABOUR} is the following vector:

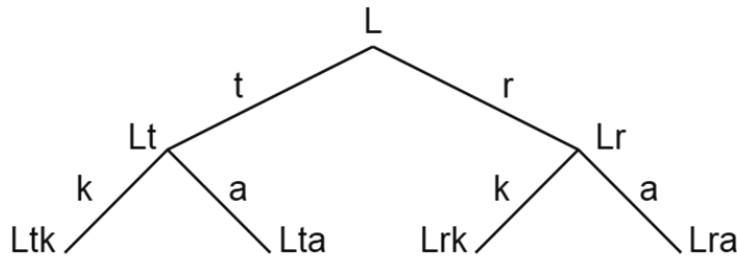
$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} t \\ r \end{pmatrix} \begin{pmatrix} k \\ a \end{pmatrix} labour$$

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} \text{thing} \\ \text{relation} \end{pmatrix} \begin{pmatrix} \text{concrete} \\ \text{abstract} \end{pmatrix} labour$$

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} Lt \\ Lr \end{pmatrix} labour = \begin{pmatrix} Ltk \\ Lta \\ Lrk \\ Lra \end{pmatrix} labour = \begin{pmatrix} \vec{L}_1 \\ \vec{L}_2 \\ \vec{L}_3 \\ \vec{L}_4 \end{pmatrix}$$

\overrightarrow{LABOUR} vector names	
Name 1	$LABOUR$
Name 2	letter L

Its graph is as follows:



\overrightarrow{LABOUR}	$\overrightarrow{LABOUR - THING}$	Ltk	Concrete labour - thing	Thing categories
		Lta	Abstract labour - thing	
	$\overrightarrow{LABOUR - RELATION}$	Lrk	Concrete labour-relation	Ideal categories
		Lra	Abstract labour-relation	

§ 1.3.3. The appearance of a four-dimensional vector $\overrightarrow{COMMODITY}$

Definition. “Commodity” is a scalar. It is an auxiliary non-logical category. It is not a $\overrightarrow{COMMODITY}$ vector name.

Definition. The vector $\overrightarrow{COMMODITY}$ is the following vector:

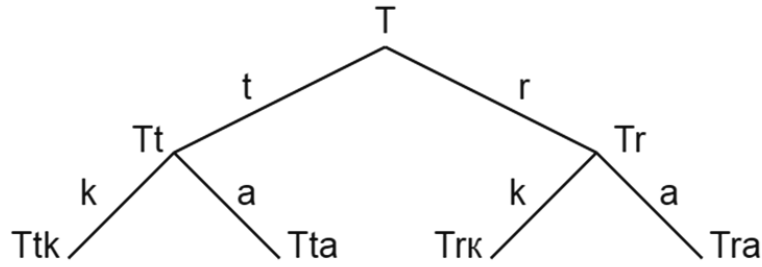
$$\vec{T} = \overrightarrow{COMMODITY} = \begin{pmatrix} \text{thing} \\ \text{relation} \end{pmatrix} \begin{pmatrix} \text{concrete} \\ \text{abstract} \end{pmatrix} commodity$$

$$\vec{T} = \overrightarrow{COMMODITY} = \begin{pmatrix} t \\ r \end{pmatrix} \begin{pmatrix} k \\ a \end{pmatrix} commodity$$

$$\vec{T} = \overrightarrow{\text{COMMODITY}} = \begin{pmatrix} Tt \\ Tr \end{pmatrix} commodity = \begin{pmatrix} Ttk \\ Tta \\ Trk \\ Tra \end{pmatrix} commodity = \begin{pmatrix} \vec{T}_1 \\ \vec{T}_2 \\ \vec{T}_3 \\ \vec{T}_4 \end{pmatrix}$$

$\overrightarrow{\text{COMMODITY}}$ vector names	
Name 1	<i>COMMODITY</i>
Name 2	letter <i>T</i>

Its graph is as follows:



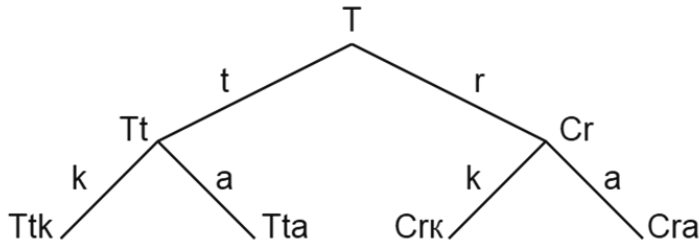
$\overrightarrow{\text{COMMODITY}}$	$\overrightarrow{\text{COMMODITY} - \text{THING}}$	<i>Ttk</i>	Concrete form $\overrightarrow{\text{COMMODITY} - \text{THING}}$
		<i>Tta</i>	Abstract form $\overrightarrow{\text{COMMODITY} - \text{TNING}}$
	$\overrightarrow{\text{COMMODITY} - \text{RELATION}}$	<i>Trk</i>	Concrete form $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$
		<i>Tra</i>	Abstract form $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$

§ 1.3.4. The appearance of a two-dimensional vector $\overrightarrow{\text{VALUE}}$.

Attention. The $\overrightarrow{\text{VALUE}}$ category name is *C*, not *V*.

Definition. $\overrightarrow{\text{VALUE}}$ is called $\overrightarrow{\text{LABOUR} - \text{RELATION}}$ embodied in $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$.

Therefore, we can replace the word $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$ with the word $\overrightarrow{\text{VALUE}}$.



$$\vec{T} = \overrightarrow{\text{COMMODITY}} = \begin{pmatrix} Tt \\ Cr \end{pmatrix} \text{commodity} = \begin{pmatrix} Ttk \\ Ttr \\ Crk \\ Cra \end{pmatrix} \text{commodity}$$

Marx's theorem: "VALUE is a special social-production RELATION of commodity producers".
 Note. According to the authors, it is not labour that creates value, but the LABOUR-RELATION. In our opinion, it is a complete coincidence with Marx.

$\overrightarrow{\text{COMMODITY}}$	$\overrightarrow{\text{COMMODITY} - \text{THING}}$	Ttk	Thing concrete form of $\overrightarrow{\text{COMMODITY}}$
		Tta	Thing abstract form of $\overrightarrow{\text{COMMODITY}}$
	$\overrightarrow{\text{COMMODITY} - \text{RELATION}}$	Crk	Use value (concrete) of $\overrightarrow{\text{COMMODITY}}$
		Cra	Abstract value of $\overrightarrow{\text{COMMODITY}}$ or just the value of the commodity

$\overrightarrow{\text{LABOUR}}$	$\overrightarrow{\text{LABOUR} - \text{THING}}$	Ltk	Thing concrete labour	Thing categories
		Lta	Thing abstract labour	
	$\overrightarrow{\text{LABOUR} - \text{RELATION}}$	Lrk	Concrete labour-relation	Ideal categories
		Lra	Abstract labour-relation	

Comparing two tables, we get Marx's theorems.

Marx's theorem:

1. Concrete labour-relation creates use value;
2. Abstract labour-relation creates value.

Marx simultaneously works in the four-dimensional and eight-dimensional spaces of categories. And so Marx's "CAPITAL" is difficult to study. It is necessary to completely abandon the four-dimensional space of categories and work only in the eight-dimensional space of categories.

§ 1.4. The most incomprehensible theorem of Marx is "MONEY is the RELATION OF PEOPLE"

Marx's theorem:

"Value is a special social-production relation of commodity producers... Gold forms only a connecting link between the metamorphoses of commodities and constitutes but their transitory money form; furthermore, that it realizes the price of one set of commodities only in order to realize that of another, but in no case does it constitute a stable form of exchange value or appear itself as a commodity in a state of rest. The reality which the exchange value of commodities acquires in the process and which is represented by gold in its circulation, is the reality of an electric spark. Although real gold, it plays the part of fictitious gold, and can, therefore, be replaced in this function by a token of itself".

Karl Marx, Friedrich Engels. An Essay, Book 13, page 98.

According to Marx, VALUE is the RELATION OF PEOPLE, i.e., IDEAL, not material. People's relations are GREEDY, COMMANDING. Love and friendship are also relation of people. How to understand Marx?

According to Marx:

- 1) CAPITAL is the RELATION (of people),
- 2) MONEY is the RELATION (of people),
- 3) PROPERTY is the RELATION (of people),

According to Lenin, CLASSES are the RELATION OF PEOPLE. How to understand that money is the relation of people, if money is gold, it is material, and the relation of people is IDEAL. Is Marx right? The leader is always right.

In the West, electronic money has replaced paper money. That is, the MONEY-THING has disappeared, there is no material money. And there is electronic money, but it is a spark in the computer! Nothing has changed in capitalism, because Marx is right: "Money is the ideal, it is the greedy relations of people, and it is the spark in the computer." Money is the mass greed of people.

If you take the greed of billions of people, you will get a huge idol out of them. This IDOL is the world CAPITAL. According to Marx, MONEY is the COLLECTIVE GREED of people. The destruction of money is the DESTRUCTION OF THE COLLECTIVE GREED of billions of people, the destruction of the terrible IDEAL one.

Hypothesis. Perhaps Marx's commodity molecule consists not of one commodity, but of two commodity atoms. That is, the Marx's commodity molecule is a diatomic molecule. After all, two people or two commodities converge in the market.

To justify this hypothesis, it is necessary to find four independent parameters for each commodity. Then the two atomic molecules will have eight independent parameters.

After that, it will be possible to combine the theory of diatomic molecule with the theory of eight-dimensional space. And we consider the theory of eight-dimensional space to be correct.

What is good about the theory of a diatomic molecule?

In this case, Marx's category of "RELATION" becomes explicit. We can say that it materializes.

"NOT A RELATION" means the property of one common commodity.

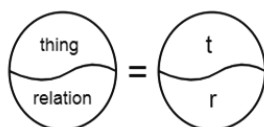
"RELATION" means that this category is a function of a diatomic molecule.

What is wrong with the theory of a diatomic molecule?

The authors carried out thermodynamic calculations based on a monatomic gas with two degrees of freedom. And now we need to make calculations based on a diatomic molecule, and each atom must have four degrees of freedom. There is no guarantee that such calculations will make political economic sense.

§ 1. 5. The dialectical pair THING – RELATION in Hegel's dialectic

Hegel's Dialectical Pair: THING – RELATION:



The thing-relation pair is the main pair of Hegel's dialectics. In philosophy, it is an ABSTRACT PAIR, which has the highest degree of abstractness. Hegel first proves the dialectic theorems on this

pair. And then he obtains the pairs: FAITH–MIND, WHOLE–PART, ART–SCIENCE. And he gets new theorems.

Dialectics of the THING–RELATION pair				
The THING–RELATION categories are dialectical, that is, VARIABLE categories. They are functions of logical time. Their values are subject to change. They can pass into each other.				
THING	primary	material	phenomenon	The RELATION category is more important than the THING category, because the sciences study ESSENCES.
RELATION	secondary	ideal	essence	

§ 1. 6. Hegel's theorem on the THING. Consequence: "Marx's theorem of HUMAN"

Theorem:

- 1) The THING is the totality of all RELATIONS with other things, about other things.
- 2) The ESSENCE OF A THING is not in the thing itself, but in its RELATIONS.

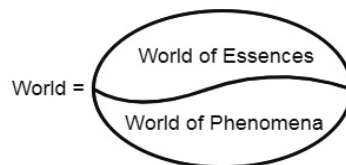
Hegel describes the transition RELATION→THING, according to the type of transitions: magnetism↔electricity (Faraday's law of electromagnetic induction).

Marx's theorem of HUMAN in political economy.

Theorem:

A (political economy) person in the WORLD OF ESSENCES is the totality of all his PRODUCTION RELATIONS with other people, about other people.

Definition: "The world is dual".



The world is dual. Therefore, theorems and definitions must always exist in pairs. Marx gave only one definition of man. He did not give a definition of a man in the world of PHENOMENON, and this is wrong. Marx consciously gave theorems only from the world of ESSENCES. Why? The sciences study essences, so theorems from the world of ESSENCES are more important than theorems from the world of PHENOMENON.

Marx did not give definitions and theorems from the world of PHENOMENON for the sake of brevity. So Engels and Hegel (sometimes) did the same. The theorems from the world of PHENOMENON were to be given by the readers. It is time to add to Marx's theorems the dual theorems from the world of phenomenon. So Marx's books will grow.

Lenin is an exception from the ranks of Hegel, Marx and Engels. Lenin set the task of formalizing dialectics, and began to fulfill it himself. Lenin gave absolutely all his theorems and definitions, such as matter, classes, states, in PAIRS both in the world of PHENOMENON and in the world of ESSENCES.

The second direction in which Lenin led the formalization of dialectics is the COMPRESSION of formulations to the INCOMPRESSIBLE, because the fundamentalization of knowledge is the compression of the formulations of theorems to the incompressible.

Theorem. Definition of a person in psychology.

- 1) “A person (in psychology) in THE WORLD OF ESSENCES is the totality of all his PERSONAL RELATIONS (i.e., EXPERIENCES) with other people, about other people.
- 2) The essence of a person is stored not in himself, but in his relations with other people, about other people.

The WORD theorem. We apply Hegel’s theorem to linguistics:

- 1) The WORD is the totality of all its RELATIONS (connections) with other words. That is, a WORD is the totality of all its epithets.
- 2) THE ESSENCE of the WORD is contained not in itself, but in epithets and in connections with other words.

A word is “a moving letter”. A sentence is “a flying word”. A story is “a sentence (idea) that moves and develops in logical time”.

§ 1. 7. The theory of RELATIVITY (the principle of relativity) is contained in Hegel’s DIALECTICS

The principle of RELATIVITY is contained in the words	
“only COMPARED WITH...”	
The THING category is primary, but only	COMPARED with the RELATION category, not absolutely
The THING category is material, but only	
RELATION is ideal, but only	COMPARED with the THING category, not absolutely.
A THING is a PHENOMENON, but the phenomenon of	its own half of the RELATION category.
RELATION is ESSENCE, but the essence of	only its half of the THING category.

Example. The FAITH–MIND categories are both ideal, not material. But according to Hegel’s PRINCIPLE of RELATIVITY, we can assume that the FAITH category is material, compared with MIND category.

Why does Marx have MONEY as the RELATION OF PEOPLE, i.e., ideal?

Now, with the help of Hegel’s principle of relativity, we can answer this question. Marx is right, money is really something ideal, but COMPARED with...

In dialectics, theorems must always be in pairs. That is, both TRANSITIONS are always signed: WAVE→ PARTICLE and PARTICLE→ WAVE. These transitions occur at different points in logical time.

Marx describes only one transition. Why? A THING is defined through the RELATION, because the RELATION is the ESSENCE of the THING. The sciences study essence, so the leader describes the most important part of the theory. The readers themselves should describe the second

half of the theory. But the political philosopher Lenin always describes both TRANSITIONS, and always formulates two theorems, not one.

§ 1.8. Hegel discovered the disease: “THING FETISHISM”

Signs of the disease “thing fetishism”:

- 1) The “sick” people consider both categories metaphysical, i.e., dead constants.
- 2) The “sick” people consider the THING category to be the ESSENCE of processes.
- 3) The “sick” people do not see the RELATION category or consider it the PHENOMENON.
- 4) The “sick” people see the whole world upside down.

Consequences of the disease.

The “sick” people see the whole world upside down. They look through a political economic, inverting lens. They take the essence for the phenomenon, and the phenomenon for the essence. They consider the cause to be the consequence, and the consequence to be the cause. This disease is widespread, and reduces millions of people, starting with the primitive savages with their magical fetish amulets.

§ 1.9. Marx’s theory of capitalist fetishism. Fetishism No.1. The theory of THING-VALUE FETISHISM

The authors clarified the name of this political economic disease: Marx called it commodity-money fetishism, but now it is called “**THING-VALUE FETISHISM**”. Marx’s theory of fetishism is a consequence of Hegel’s theory of thing fetishism.

GOLD-RELATION and GOLD-THING

The thing VALUE fetishist mistakes GOLD-THING for the real VALUE (money). But this is not so: VALUE is not the GOLD-THING. The value is perfect, and it is enclosed within the GOLD-THING. Gold-thing is a skin or carrier of real value.

The REAL VALUE is the GOLD-RELATION. The Marxist sees living people buried in GOLD-THING as in a prison. He hears their groans: “Mighty brothers! Where are you? Help me”. The Marxist considers these people, their lives and time, to be the real value; and gold-thing only a golden skin, a golden prison for people-values.

At equilibrium, the calculations of the Marxist and the fetishist coincide. But it turns out that the fetishists are wrong in transition processes (in crises). VALUE is not GOLD-THING.

Example. There is an isolated market where the treasure was found. The volume of gold money has doubled, and the total VALUE has not changed.

Example. Thing fetishists consider the coal (THING) to be thermal energy. But this is not so: if there is no oxygen, then it is impossible to extract thermal energy from coal. So the thermal energy that contained in the coal is actually NOT THING, but RELATION. And ENERGY-RELATION is the relation of coal to other substances.

Those who are sick with commodity-money fetishism consider the Golden Idol (THING) to be a real god. They believe that he is powerful, eternal, immortal. From morning to evening, the prayers of fetishism believers are heard: “And, Olla, dollar. And, Olla, dollar”. The priests of this terrible religion sacrifice millions of people to their insatiable Golden Idol in countless warriors. And they also want to sacrifice our magical Earth.

§ 1.10. The eight-dimensional space of Marx categories Ω_8 . Second order laws

§ 1.10.1. The appearance of an eight-dimensional vector \overrightarrow{LABOUR} .

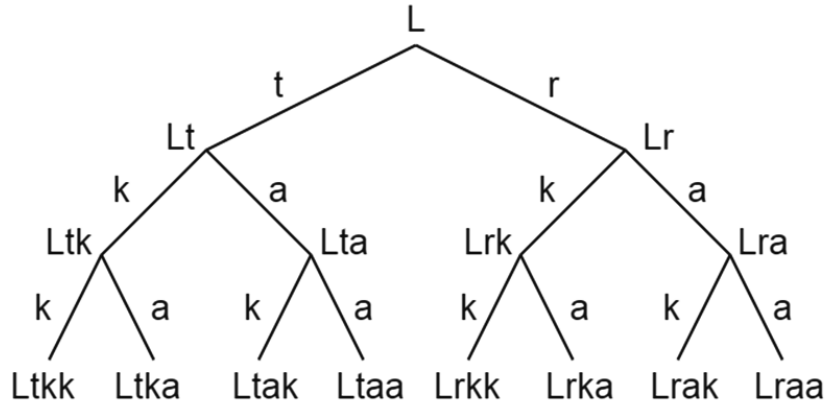
Definition. The vector \overrightarrow{LABOUR} is the following vector:

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} t \\ r \end{pmatrix} \begin{pmatrix} k \\ a \end{pmatrix} \begin{pmatrix} k \\ a \end{pmatrix} labour \Rightarrow$$

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} thing \\ relation \end{pmatrix} \begin{pmatrix} concrete \\ abstract \end{pmatrix} \begin{pmatrix} concrete labour \\ abstract labour \end{pmatrix}$$

$$\vec{L} = \overrightarrow{LABOUR} = \begin{pmatrix} Lt \\ Lr \end{pmatrix} labour = \begin{pmatrix} Ltk \\ Lta \\ Lrk \\ Lra \end{pmatrix} labour = \begin{pmatrix} Ltkk \\ Ltka \\ Ltak \\ Ltaa \\ Lrkk \\ Lrka \\ Lrak \\ Lraa \end{pmatrix} labour$$

Its graph is as follows:



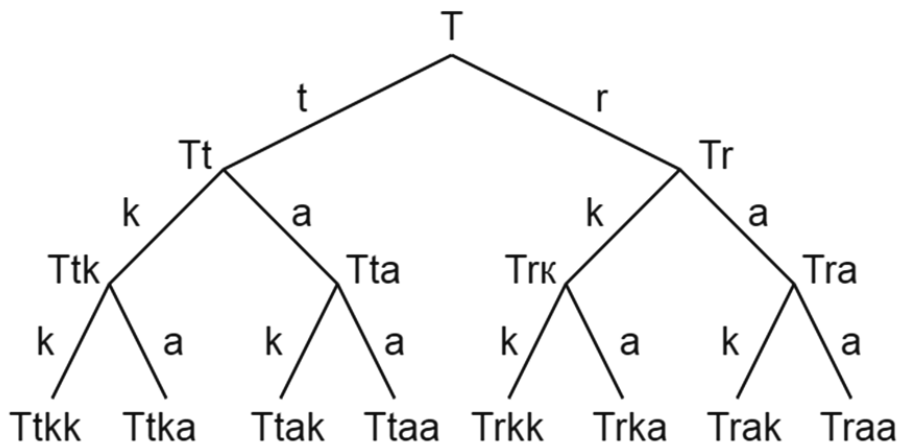
\overrightarrow{LABOUR}	$Ltkk$	Thing twice-concrete labour	Thing categories
	$Ltka$	Thing concrete-abstract labour	
	$Ltak$	Thing abstract-concrete labour	
	$Ltaa$	Thing twice -abstract labour	
	$Lrkk$	Twice concrete labour-relation	Ideal categories
	$Lrka$	Concrete-abstract labour-relation	
	$Lrak$	Abstract-concrete labour-relation	
	$Lraa$	Twice abstract labour-relation	

§ 1.10.2. The appearance of an eight-dimensional vector $\overrightarrow{COMMODITY}$

Definition. The vector $\overrightarrow{COMMODITY}$ and its graph:

$$\begin{aligned}\vec{T} = \overrightarrow{COMMODITY} &= \binom{t}{r} \binom{k}{a} \binom{k}{a} \text{commodity} \Rightarrow \\ \vec{T} = \overrightarrow{COMMODITY} &= \binom{thing}{relation} \binom{concrete}{abstract} \binom{concrete commodity}{abstract commodity} \\ \vec{T} = \overrightarrow{COMMODITY} &= \binom{Tt}{Tr} \text{commodity} = \binom{Ttk}{Tta}{Trk}{Tra} \text{commodity} = \binom{Ttkk}{Ttka}{Ttak}{Ttaa}{Trkk}{Trka}{Trak}{Traa} \text{commodity}\end{aligned}$$

Vector graph $\overrightarrow{COMMODITY}$ is as follows:



$\overrightarrow{COMMODITY}$	$\overrightarrow{COMMODITY - THING}$	$Ttkk$	Thing twice-concrete form $\overrightarrow{COMMODITY}$
		$Ttka$	Thing concrete-abstract form $\overrightarrow{COMMODITY}$
		$Ttak$	Abstract-concrete form $\overrightarrow{COMMODITY - THING}$
		$Ttaa$	Twice-abstract form $\overrightarrow{COMMODITY - THING}$
	$\overrightarrow{COMMODITY - RELATION}$	$Trkk$	Twice-concrete form $\overrightarrow{COMMODITY - RELATION}$
		$Trka$	Concrete-abstract form $\overrightarrow{COMMODITY - RELATION}$
		$Trak$	Abstract-concrete form $\overrightarrow{COMMODITY - RELATION}$

		$Traa$	Twice-abstract form $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$
--	--	--------	--

THE MAIN POLITICAL ECONOMIC GRAPH

Here we combine the graph of the vector $\overrightarrow{\text{LABOUR}}$ and the graph of the vector $\overrightarrow{\text{COMMODITY}}$ into one graph. It is the main political economic graph.

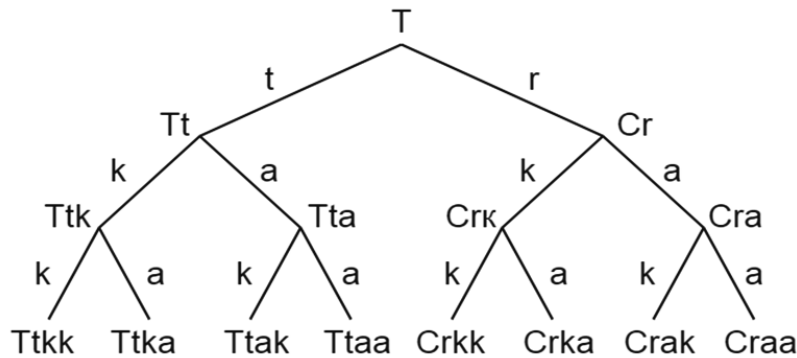
$$\vec{L} = \overrightarrow{\text{LABOUR}} = \begin{pmatrix} Lt \\ Lr \end{pmatrix} \text{labour} = \begin{pmatrix} Ltk \\ Lta \\ Lrk \\ Lra \end{pmatrix} \text{labour} = \begin{pmatrix} Ltkk \\ Ltka \\ Ltak \\ Ltaa \\ Lrkk \\ Lrka \\ Lrak \\ Lraa \end{pmatrix} \text{labour}$$

$$\vec{T} = \overrightarrow{\text{COMMODITY}} = \begin{pmatrix} Tt \\ Tr \end{pmatrix} \text{commodity} = \begin{pmatrix} Ttk \\ Tta \\ Trk \\ Tra \end{pmatrix} \text{commodity} = \begin{pmatrix} Ttkk \\ Ttka \\ Ttak \\ Ttaa \\ Trkk \\ Trka \\ Trak \\ Traa \end{pmatrix} \text{commodity}$$

§ 1.10.3. The appearance of a four-dimensional vector $\overrightarrow{\text{VALUE}}$

Definition. $\overrightarrow{\text{VALUE}}$ is called $\overrightarrow{\text{LABOUR} - \text{RELATION}}$ embodied in $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$.

Therefore, we can replace the words $\overrightarrow{\text{COMMODITY} - \text{RELATION}}$ with the word $\overrightarrow{\text{VALUE}}$:



$$\vec{T} = \overrightarrow{COMMODITY} = \begin{pmatrix} Tt \\ Tr \end{pmatrix} commodity = \begin{pmatrix} Ttk \\ Tta \\ Crk \\ Cra \end{pmatrix} commodity = \begin{pmatrix} Ttkk \\ Ttka \\ Ttak \\ Ttaa \\ Crkk \\ Crka \\ Crak \\ Craa \end{pmatrix} commodity$$

Marx's theorem: "VALUE is a special social-production RELATION of commodity producers".

$\overrightarrow{COMMODITY}$	$\overrightarrow{COMMODITY - THING}$	$Ttkk$	Thing twice-concrete form $\overrightarrow{COMMODITY}$
		$Ttka$	Thing concrete-abstract form $\overrightarrow{COMMODITY}$
		$Ttak$	Abstract-concrete form $\overrightarrow{COMMODITY - THING}$
		$Ttaa$	Twice-abstract form $\overrightarrow{COMMODITY - THING}$
	\overrightarrow{VALUE}	$Crkk$	Twice -concrete value of commodity
		$Crka$	Concrete-abstract value of commodity
		$Crak$	Abstract-concrete value of commodity
		$Craa$	Twice-abstract form of value of commodity. Value of commodity according to Marx

The political economic meaning of the vector \overrightarrow{VALUE}

$\overrightarrow{VALUE} = \vec{C}$	$Crkk$	Twice concrete value	Labour value
	$Crka$	Concrete-abstract value	Use value
	$Crak$	Abstract-concrete value	Money value
	$Craa$	Twice abstract value	Value of commodity in Marx's "CAPITAL". Abstract value

The category of "value" in Marx's "CAPITAL"

It is the fourth coordinate of the vector \overrightarrow{VALUE} . We have:

$$\text{Marx value is} = \overrightarrow{VALUE}_4 = Craa = \text{twice abstract value.}$$

But for the authors, the word "value" is an auxiliary category. There is a definition to avoid confusion.

Definition. The value will be called abstract value in Marx's CAPITAL. This definition is a non-logical definition.

The vector \overrightarrow{VALUE} has four states. The exclusion principle is valid.

Theorem. At every moment of political economic time, the vector \overrightarrow{VALUE} can only be in one of its four states. The vector \overrightarrow{VALUE} cannot be simultaneously in two or more states.

The proof of the theorem is as follows. At any moment of logical time small-scale producer can act only in one of four states: producer, seller, buyer, consumer. The purchase of a commodity occurs before the consumption of the commodity in the logic of the process. Although for a commodity-service purchase and consumption may coincide in physical time.

Why is it undesirable to use Marx's four-dimensional theory?

Theories	Four-dimensional space Ω_4	Eight-dimensional space Ω_8
\overrightarrow{VALUE}	Use value	Labour value
		Use value
	Abstract value	Money value
		Marx's abstract value

Here, we can see that the use value in a four-dimensional space is a vector in an eight-dimensional space:

$$\text{Use value } (\Omega_4) = \begin{pmatrix} \text{Labour value} \\ \text{Use value} \end{pmatrix} (\Omega_8)$$

Analogically, an abstract value in a four-dimensional space is a vector in an eight-dimensional space:

$$\text{Abstract value } (\Omega_4) = \begin{pmatrix} \text{Money value} \\ \text{Abstract value} \end{pmatrix} (\Omega_8)$$

Results: the same word in the spaces Ω_4 and Ω_8 has different meanings and different forms.

§ 1.10.4. The secret of Marx: "What does Marx mean by the word FORM?"

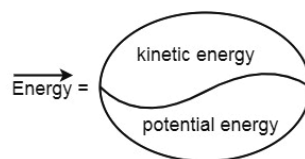
The Marx's category FORM means the vector coordinate.

The answer is that under the word FORM Marx means "VECTOR COORDINATE". The first form is the first vector coordinate. The second form is the second vector coordinate.

Example. There is the vector \overrightarrow{ENERGY} . We have: $\overrightarrow{ENERGY} = \begin{pmatrix} \text{potential} \\ \text{kinetic} \end{pmatrix} \text{energy}$.

The potential energy is	the first coordinate	of the vector \overrightarrow{ENERGY}
	the first form (Marx)	
Kinetic energy is	the second coordinate	
	the second form (Marx)	

\overrightarrow{ENERGY} is not a vector, it is a dialectical pair:

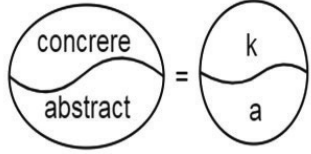


But the use of vectors makes it possible to simplify the presentation of Marx's CAPITAL.

Therefore, we can say that the first coordinate of the vector \overrightarrow{VALUE} is the first form, the second coordinate is the second form. This presentation will exclude logical contradictions.

Contradictions in the authors' designation system.

The purpose is to create a unified designation system for political economy and physics. In addition, the designation system must be consistent with the Russian and English languages. The task is difficult and it is not solved. So, contradictions have arisen in the authors' designation system.

Categories		Letters to indicate categories		
Value		C	Why the letter C and not the letter V ?	Because the letters V are the volume of gas in physics In Russian and English languages: $VALUE = COST = \text{СТОИМОСТЬ} = C.$
Consumer mass in political economy	Total heat capacity in physics	C	The contradiction is that value and consumer mass (total heat capacity) are denoted by the same letter. Yes, it is. So, we have to enter new letters.	
Commodity		T	Why the letter T and not the letter C ?	Because in Russian: $\text{Commodity} = \text{TOVAR} = T$
concrete		k	Why the letter k and not the letter c ?	Because in Russian: $\text{concrete} = \text{конкретный} = k$
Dialectical pair: concrete-abstract.		$\begin{pmatrix} k \\ a \end{pmatrix}$		

Chapter II. The small-scale market as an ideal political economic gas with two degrees of freedom

§ 2.1. Axioms of a market ideal political economy gas with two degrees of freedom

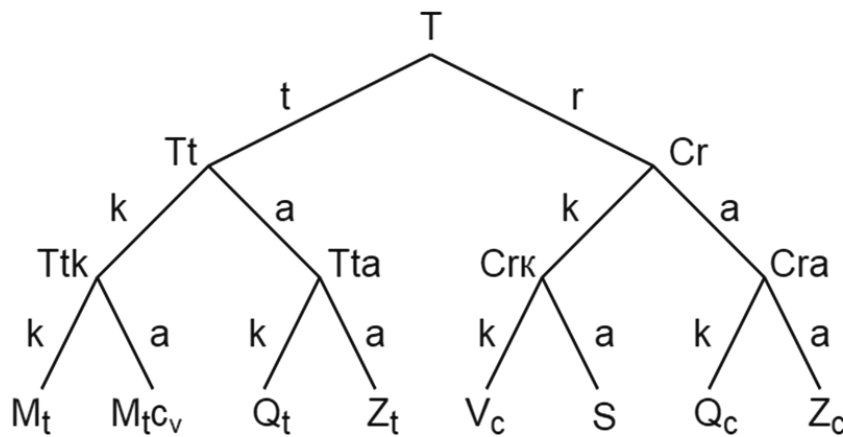
1. It is the money market. All prices are expressed in grams of gold.
2. Small-scale producers are independent from each other.
3. They are commensurate with each other.
4. There are no hired workers.
5. Only one commodity is sold and bought on the market. For example: “a pair of boots”. That is, boots are changed to boots in the market.
6. If the exchange is made without money, then such a market is called VALUE MARKET.
7. If the exchange is made by money, then such a market is called MONEY MARKET. But the real money is gold.
8. Commodities are sold once.
9. The market works one day (one month, one year).
10. Commodities are consumed at the moment of purchase or a second after purchase.

§ 2.2. Table of analogies between political economy and thermodynamics

$\overrightarrow{\text{COMMODITY}}$			Political Economy	Physics
Thing categories. $\overrightarrow{\text{COMMODITY}} = \overrightarrow{\text{COMMODITY}} - \overrightarrow{\text{THING}}$.				
Logical categories			Non-logical categories.	
$Ttkk$	Thing twice-concrete form of $\overrightarrow{\text{COMMODITY}}$	M	A labour THING . Commodity mass. Meters of fabric. Tons of wheat.	Mass
		N	Number of commodities.	
		V_t	The quantity of labour (Marx) as a THING, as a mass of commodities. Labour thing hours.	
$Ttka$	Thing concrete-abstract form of $\overrightarrow{\text{COMMODITY}}$	Mc_V	A consumer THING . The total consumer mass in the equilibrium state. The total heat capacity of the market.	Thermal mass. Total heat capacity.
		Nk_t		
		$C = \frac{\delta Q}{d\theta}$	The total consumer mass of commodities in the transition process.	
$Ttak$	Thing abstract-concrete form of $\overrightarrow{\text{COMMODITY}}$	Q_t	Money THING . The real money supply of market as a THING. Grams of gold. Determined after sales	Thermal energy as a THING
$Ttaa$	Thing twice-abstract form of $\overrightarrow{\text{COMMODITY}}$	Z_t	Abstract THING is GOLD. GOLD as a THING, as gold bar. Grams of gold. VALUE AS A THING, like a piece of gold. Real work of real people.	Work is energy as a THING
Value categories. $\overrightarrow{\text{COMMODITY}} = \overrightarrow{\text{COMMODITY}} - \overrightarrow{\text{RELATION}}$.				
$Crkk$	Twice-concrete value of $\overrightarrow{\text{COMMODITY}}$	$V = V_C$	Labour value . Marx’s “a quantity of labour” as the volume of labour. Labour value hours.	Volume
$Crka$	Concrete-	S	Use value	Entropy

	abstract value of $\overrightarrow{\text{COMMODITY}}$			
<i>Crak</i>	Abstract- concrete value of $\overrightarrow{\text{COMMODITY}}$	Q_c	Money value. Money supply of market as a value	Thermal energy as a RELA- TION
<i>Craa</i>	Twice-abstract value of $\overrightarrow{\text{COMMODITY}}$	Z_c	Abstract value of Marx. Gold is as a value. The VALUE is as the real work of real people. Value in Marx's CAPITAL	Work is energy as a RELA- TION.

§ 2.3. The half of the main political economic graph is the vector graph $\overrightarrow{\text{COMMODITY}}$



The left half of the graph contains thing categories, and the right half of the graph contains value categories.

§ 2.4. Non-logical name systems. Definition of the VALUE category

Theorem. The value in Marx's CAPITAL is the eighth coordinate of the vector $\overrightarrow{\text{COMMODITY}}$ and the fourth coordinate of the vector $\overrightarrow{\text{VALUE}_4}$:

$$Craa = \overrightarrow{\text{COMMODITY}}_8 = \vec{C}_4 = \overrightarrow{\text{VALUE}_4}.$$

It is ABSTRACT value. Non-logical name system is as follows:

$$\vec{C} = \overrightarrow{\text{VALUE}} = \begin{pmatrix} V_c \\ S \\ Q_c \\ Z_c \end{pmatrix} = \begin{pmatrix} \text{labour} \\ \text{consumer} \\ \text{money} \\ \text{abstract} \end{pmatrix} \text{value.}$$

Thus, it is necessary to create a SPECIALIZED MATHEMATICAL LOGIC for Marx's CAPITAL. So we need mathematicians-logicians.

It is impossible to create a mathematical model of the world economy according to Marx's "CAPITAL" without specialized mathematical logic. We are working for mathematicians and logicians who will undertake this hard work. And we try to make all categories unambiguous.

It should be different from classical mathematical logic. Why? Should it also include simplified Russian (English, German)?

What for? In order to be able to obtain Marx's theorems by reading graphs. The embryos of such languages are available in databases. They are called languages for reading ER diagrams. They are arranged as follows: a certain number of words are selected from the Russian language. These words are placed on the edges or nodes of the ER diagram. After that, some of the words are declared as verbs, nouns or adjectives.

Then the theorems of database theory can be obtained by reading ER diagrams. Is there currently a developed language for reading ER diagrams?

No, there is not. Why? These languages are made by engineers. And we need mathematicians-linguists who will create an axiomatic language for reading ER diagrams.

§ 2.5. Marx's theorems in the eight-dimensional space of categories— Ω_8

Here we combine the two graphs and get the Marx theorems.

No.	Categories	Value theorems	Physics
Theorem No.1.	Z_C	The abstract value of the commodity Z_C is created by twice abstract LABOUR-RELATION	Work. Work as relation
Theorem No.2.	Q_C	The money value of commodity (price-value) Q_C is created by abstract-concrete LABOUR-RELATION	Thermal energy. Thermal energy as a relation.
Theorem No.3.	S	The use value of commodity S is created by concrete-abstract LABOUR-RELATION	Entropy
Theorem No.4.	V_C	The labour value of commodity (price-value) - V_C is created by twice concrete LABOUR-RELATION	Volume
		Thing theorems	
Theorem No.5.	Z_t	The value MASS as THING, as gold bar Z_t is created by twice abstract THING LABOUR	Work. Work as THING.
Theorem No.6.	Q_t	The money MASS (price-thing) Q_t is created by abstract-concrete THING LABOUR	Thermal energy. Thermal energy as a THING.
Theorem No.7.	$M_{tc_v, Nk, C}$	The consumer commodity MASS $M_{tc_v, Nk, C}$ is created by concrete-abstract THING LABOUR	Total heat capacity. Thermal mass
Theorem No.8.	M_t	The commodity MASS M_t is created by twice concrete THING LABOUR	Mass

Theorems	
1	Use value is entropy.
2	The consumer mass is the total heat capacity of the market
	Consumer commodity mass is a thermal mass (Total heat capacity).

The subtleties of philosophy.

We know that philosophy is not commutative. The subtleties of philosophy are that the meaning of a sentence can change from the permutation of words in a sentence.

There are two formulations of the same theorem.

Theorem 8a. The commodity MASS M_t is created by twice concrete THING LABOUR.

Theorem 8b. The commodity MASS M_t is created by THING twice concrete LABOUR.

In a logical sense, these theorems may not be equivalent, what is bad. It is necessary to choose one of these theorems. This means that we must always take into account that it is not the commutativity of political economy that generates many different versions, and we have to stick to just one version.

§ 2.6. Thing category $M = M_t$ –“Labour thing”. Mass of commodities

It is also the variable N . It is also the variable V_t

An ideal political economic gas is a market with the same type of commodities. There is only one commodity on the market. For example, a pair of boots: the boots are exchanged for boots. All commodities are absolutely identical, and they have the same quality. If the same commodities have different quality, then the market must average them. But this means that we must also average a mathematical model.

Example. There are 100 tons of bad tea on the market, which is equivalent to 60 tons of average tea across the country, on the world market. If one ton is one molecule, then we put $M=N=60$ molecules into the mathematical model.

Marx’s political economy does not describe a real market where 100 tons of various teas were sold. Marx’s political economy is a virtual, abstract model of the market.

Question. Is it possible to determine the commodity mass $M(N)$ by calculation before the first coming of the market?

Yes, it is. This is the task of the non-political “Commodity Science”. How is the average molecule determined? How is the average quality tea determined? The quality of tea is determined by chemical composition: caffeine, vitamins, minerals. Then we average over the amount of tea on the market.

Example. The car after-market. 100 old cars were thrown onto this market.

Can “Commodity Science” determine an old car of average quality before the first coming of the market?

Yes, it can: The quality of the car is determined by car longevity, mileage and the careful car-ownership. So, the commodity science has determined that 100 old machines give only 30 commodity molecules. We put $N(M) = 30$ in the mathematical model of Marx’s Capital.

An old car is a molecule, a virtual car is determined by averaging across the country.

Lemma 1. The number of virtual old cars will be equal to the number of real old cars when averaged across the country.

Lemma 2. But in another market, the number of virtual old cars, the number of cars-molecules may not coincide with the number of real cars. Thus, Marx's Capital is a virtual science.

Question. Does it turn out that we do not see the real sale of a real old car? This task is dealt with by commodity science and economics in the accounting sense.

Political economy deals with mass quantities, classes. Applied sciences are engaged in the fate of an individual person or good.

Lemma. The total calculations of political economy and commodity science will coincide with the accounting economy.

But why do we need calculations of political economy?

Political economy calculations are the ESSENCE of accounting economics calculations. Accounting economics deals only with PHENOMENON, or even with the APPEARANCES of phenomenon (according to Hegel). It cannot explain the crises. It cannot explain anything at all. And it cannot predict anything. So, the commodity mass $M(N)$ can be determined by calculation before the first coming of the market.

The consumer mass is the total heat capacity of the gas.

During the transition process, it is calculated by the formula: $C = \frac{\delta Q}{d\theta}$. But what does Mc_v, Nk have to do with the use value? The authors could not formulate an exact and unambiguous definition of use value. They leave this task to physicists. In the meantime, we consider one of the three formulas as the use value:

$$\left| \begin{array}{l} C = \frac{\delta Q}{d\theta} \\ Mc_v \\ Nk \end{array} \right. - \text{thermal mass, total heat capacity}$$

It is no longer possible to determine the consumer mass by calculation before the first coming of the market. It is the thermal mass or the total heat capacity of the gas. In fact, it is the heat capacity of the entire market.

Although it can be determined by calculation after the first coming of the market.

Objection. If the commodity mass $M(N)$ can be determined without a market, so it is not a capitalist category. But the following axiom is true.

Axiom. All categories in the political economy of capitalism are capitalist categories.

So the commodity mass $M(N)$ can be determined only after the first coming of the market.

The problem of expensive and cheap cars in the same market.

Example. There are both expensive and old cars on the car market. How can we average it? If there are two different classes of buyers in this market, we have two different markets.

Question. Is it possible to include all the commodities of a large state in one market model?

It is possible, but we need to reduce all the commodities to one abstract thing commodity. And we have it. It is a worker. We can take one labour hour for one molecule. So we consider that labour times are sold on the market instead of things. We also need to include class models in the model, but it is not known whether such a model is possible or impossible.

Thing category V_t is labour thing. The quantity of labour as a commodity MASS. The unit of measurement is “labour thing hour”. So $V_t = V_C$, but it can differ from each other in transition processes. We are still not convinced of the existence of the V_t category. Further, the commodity mass we understand as the category $M = 8000$ tons of wheat.

Transition processes are the second coming of the market. The purpose of political economy is to study transition processes. Logical problems cannot be resolved without the theory of two market comings.

§ 2.7. Value category V_C is labour value. Labour volume

Value category V_C is labour value. A quantity of labour is as LABOUR VOLUME, as labour VALUE. Unit of measurement is “labour value hour”.

If 10 workers work for 8 hours 12 days and collect 8000 tons of wheat, quantity of labour as VALUE is equal to:

$$V_C = 10 * 12 * 8 = 960 \text{ labour value hours.}$$

The labour value category answers the question: “The labour value of what?”. In this case, the labour value of 8000 tons of wheat is equal to 960 labour value hours.

§ 2.8. Thing category Q_t is money thing. The total money supply. Thermal energy is as THING, as tons of coal.

It is determined after sales. This is the real money of the real work of the market in one day. It is measured in grams of gold.

§ 2.9. Value category Q_C is money value, or value contained within total money thing Q_C . Thermal energy is as energy.

It is obvious that Q_C, Q_t may not coincide with each other.

§ 2.10. Thing category Z_t is total VALUE (abstract) THING, total VALUE (abstract) THING-GOLD, with real VALUE inside.

It has the shape of a gold bar, the shape of a THING. This is a gold bar with labour hours inside. The great wizard CAPITAL turned people into a golden sculpture. But people have not died yet. We can feel their hearts beating. We hear their voices: “Mighty brothers! We are still alive. Help! Break the Golden Idol”.

§ 2.11. Value category Z_C is total abstract VALUE. The energy obtained through the real work of real people. NEW VALUE

Abstract value Z_C is contained within the GOLD-THING, but it is not a GOLD-THING. The value of real work of real people.

Example. There is an isolated market. There someone finds a large quantity of gold. The total quantity of gold doubles, but the total value remains the same.

§ 2.12. Thing category Mc_V is consumer mass (thing). In the transition process, it is the total heat capacity of the market - C . Thermal mass.

It is the total heat capacity of the market $= \frac{\delta Q}{d\theta}$. If we apply additional amounts of money δQ to the market, the heat capacity of the market can be calculated from the market reaction. The statistics of international markets are so huge. It is possible to calculate the heat capacity of the market using the similarity theory, without resorting to experiments.

§ 2.13. Value category S . The theorem. Entropy is the use value.

Theorem. The use value is the entropy S . VALUE of what?

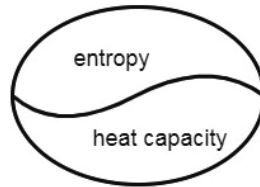
[Value of value. No.
Value of THING. Yes.

Lemma. Entropy S is the use value of a consumer thing C . So entropy is the value of thermal mass, the value of the total heat capacity C . Entropy is the value of the body's heat capacity.

Small-scale market as an ideal political economy two-dimensional gas		
	Political economy	Physics
N	A labour thing. The number of similar commodities.	Three forms: the number of molecules, mass and time as a labour thing. But the existence V_t is questionable. It probably does not exist.
M	Commodity mass.	
V_t	The total commodity mass. Tons of wheat or hundreds of meters of fabric. Thing category The total labour hours as a thing. Labour thing hour. Commodity mass.	
V_c	Labour value. The total labour hours as a value. Labour value hour. Labour volume	Volume
θ	Money value of unit consumer mass of commodities (not a commodity). Price.	Temperature
$Z = Nk\theta$	Internal VALUE of market gas	U internal energy
$Q = Nk\theta$	The total money value of all commodities. It is determined after sales.	Energy in thermal form
p	Three times abstract value (VALUE). Universal constant of human value	Pressure
$A = pdV$	Three times abstract value is VALUE. Real labour of additional people. NEW VALUE	Labour
S	The total use value	Entropy
	Two Boltzmann constants:	
$k_c = 1$	The use value is not a unit of commodity, not a unit of commodity mass, but a unit of consumer (thermal) mass. Value category	Entropy unit: $S = k_c \ln(W)$.

$1 = k_t$ $= c_v$	Unit of consumer mass at constant V_C . Thing category.	Thermal mass unit (heat capacity of a body): $Q = Nk_t\theta$.
	Heat capacity at constant labour value V_C	
Mc_v	Consumer mass. Thing category. The total consumer gas mass in equilibrium. The total consumer mass in the transition process: $C = \frac{\delta Q}{d\theta}$	Thermal mass. The total heat capacity of the gas in equilibrium
Nk_t		The total heat capacity of the gas in the transition process
C		
$c_p = 2$	Heat capacity at constant pressure	
$N_A = 1$	The Avogadro constant	
$R = 1$	Universal gas constant	

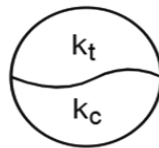
The total heat capacity and the total entropy form a dialectical pair:



Therefore, these transitions: entropy \rightarrow heat capacity, heat capacity \rightarrow entropy give important theorems of thermodynamics.

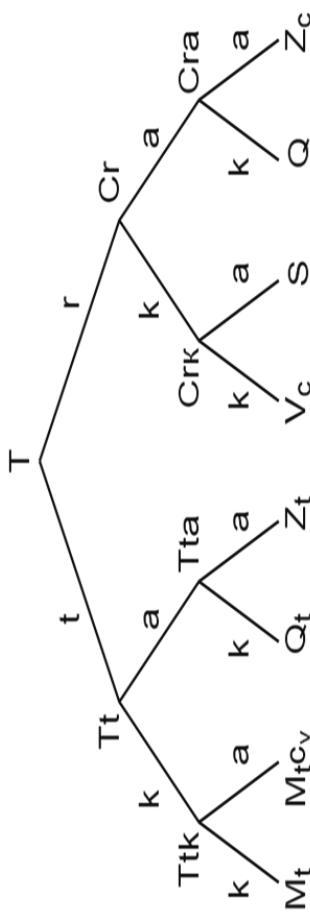
§ 2.14. Two Boltzmann constants. $\left(\frac{k_t}{k_c}\right)$. The value (entropy) Boltzmann constant k_c is a unit of use value. The thing Boltzmann constant (heat capacity) k_t (or c_v ?) is unit of consumer mass

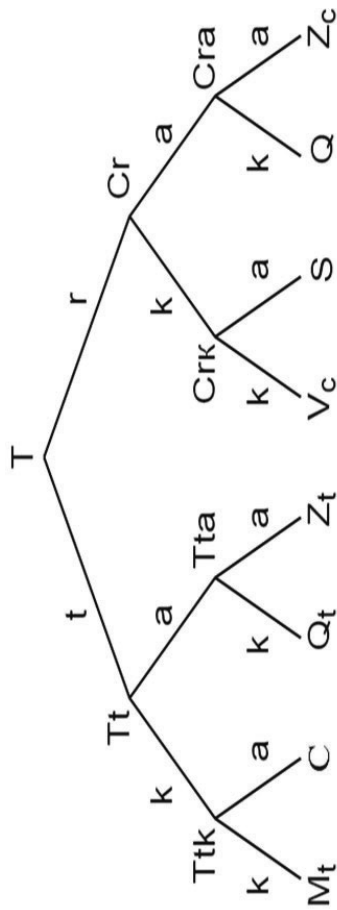
They form a dialectical pair:



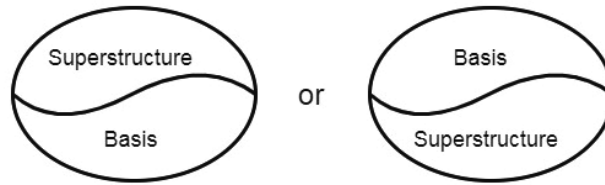
The value Boltzmann constant k_c is the unit of entropy in the Boltzmann formula: $S = k_c \ln(W)$. In political economy, it is a unit of use value. The thing Boltzmann constant k_t (or c_v ?) is the unit of heat capacity of a body in the formula $Q = Nk_t\theta$. It is a unit of thermal mass. In political economy, it is a unit of consumer mass with a constant volume of labour value V_C . Some inaccuracies are possible here. But physicists will be able to correct these inaccuracies.

§ 2.15. Verbal description of the categories of the halves of the main political economic graph
- the graph of a vector COMMODITY

How can categories be compared? Answer: according to the principle of relativity.			
Categories can be twice thing, twice value, once thing, once value. When comparing categories according to the principle of relativity, it is necessary to add the phrase “COMPARED TO...”			
<div></div>			
Thing categories		Value categories	
M_t – twice thing category		Z_c – twice value category	
$M = M_t$ is once thing category	compared to	once value ry M_{C_V}	once thing category S
M_{tC_V} is once thing category	compared to	once thing category M_t	once thing category V_c

Description of categories							
							
Commodity thing	Consumer thing	Money thing	Abstract thing – gold bar	Labour value	Use value	Money value	Three times abstract value of a person
M_t	C	Q_t	Z_t	V_c	S	Q_c	Z_c
Commodity mass. Tons of grain.	Consumer mass The total heat capacity of the market: $C = \frac{\delta Q}{d\theta} \Big _{M, c_v, Nk}$	The total money supply of real commodities on the market. Q_t is money as a thing, as a value carrier Q_c	Z_t is gold as a thing, as a value carrier Z_c	Labour value. The volume of labour time.	Use value	Money value	Three times abstract value. This is the real labour of real people. This is the value of a person.

How to number categories in complex dialectical pairs: “Bottom up or top down?” That is how we need:



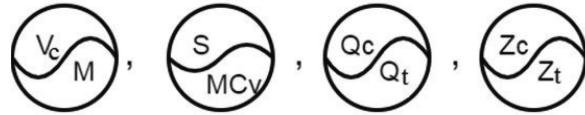
In this paper, we do not adhere to a strict numbering system for categories. It is more correct to put the primary categories to the bottom in dialectical pairs. But in mathematics, the numbering of the elements of vectors goes from top to bottom. It is a contradiction.

In this matter, mathematics is more important than political economy. We need to number it from top to bottom. At the top are the thing categories, and the value (ideal) ones are at the bottom. The graphs nodes are numbered from left to right.

Chapter III. Five theories of thing fetishism

§3.1. The first theory of thing fetishism. Fetishism No.1. Karl Marx's theory of THING-VALUE FETISHISM. Dialectical pair $\begin{pmatrix} Z_c \\ Z_t \end{pmatrix}$ = gold value – gold thing (value carrier)

The main political economy graph contains four dialectical pairs:



These dialectical pairs give us four theories of thing fetishism.

Dialectical pair: $\begin{pmatrix} Z_c \\ Z_t \end{pmatrix}$. Category Z_c is the total VALUE.

	Z_c	Secondary compared to...	Ideal compared to...	Value Z_c is an essence of gold – thing Z_t	The consequence, compared to...
	Z_t	Primary compared to...	Material compared to...	Gold – thing Z_t is a phenomenon of value Z_c .	The cause, compared to ...

A “sick” thing fetishist confuses cause and consequence. He understands value as gold - thing. But the disease is found only in the transition process.

The task. Hegel's theory of TRANSITIONS. Examine transitions: $Z_c \leftrightarrow Z_t$. Each transition is a great theorem. Marx called this disease a commodity-money fetishism. But authors called this disease a commodity-value fetishism or thing-value fetishism.

§3.2. The second theory of thing fetishism. Fetishism No.2. The theory of THING MONEY fetishism. Dialectical pair: $\begin{pmatrix} Q_c \\ Q_t \end{pmatrix}$ = money supply as a value and as a thing (value carrier)

Dialectical pair: $\begin{pmatrix} Q_c \\ Q_t \end{pmatrix}$. Category Q_t is the total real money supply from the sold commodities within one day or one month. Q_c is the amount of real values, which are inside the real money supply Q_B . Obviously, the pair $\begin{pmatrix} Q_c \\ Q_t \end{pmatrix}$ does not coincide with pair $\begin{pmatrix} Z_c \\ Z_t \end{pmatrix}$ in the transition process/emergency situations.

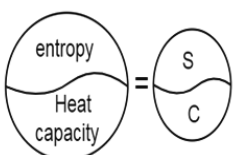
Example. There are some interruptions in the supply of food and prices has instantly increased. Traders benefit because the profit are much higher than the real value of their commodities. Also the rate of gold money can change.

But the categories Q_c, Q_t may also not coincide with each other. A “sick” thing fetishist understands the thing category Q_t as an essence.

Task 1. The logical scheme needs to be filled with real political economic content. It is necessary to give examples of a sick thing fetishist who confuses the categories Q_t and Q_c .

Task 2. Hegel's theory of TRANSITIONS. Examine TRANSITIONS: $Q_t \leftrightarrow Q_C$. Each transition is a great discovery.

§3.3. The third theory of thing fetishism. Fetishism No.3. The theory of THING CONSUMER fetishism. Dialectical pair: $\begin{pmatrix} S \\ C \end{pmatrix}$: use value and thing (carrier)


	S is the total use value	k_C is unit of use value	Entropy	k_C is unit of entropy in the Boltzmann formula $S = k_C \ln(W)$
	C is the total consumer mass: $C = \frac{\delta Q}{d\theta}$	k_t is unit of consumer mass in the formula $Q = Nk_t\theta$	Thermal mass is the total heat capacity of the entire gas (body)	Is it c_v in the formula Mc_v ?

Physicists will be able to describe this disease better than authors. Note: commodity mass M_t and consumer thing (mass) C are different categories.

Theorem. Entropy is the value of heat capacity.

§3.4. The fourth theory of thing fetishism. Fetishism No.4. The theory of THING LABOUR fetishism.

§3.4.1. Dialectical pair: $\begin{pmatrix} V \\ M \end{pmatrix} = \begin{pmatrix} V_C \\ M_t \end{pmatrix}$ is labour value and labour thing (carrier)

	$V = V_C$ is the total labour time as a value	There is no thing fetishism. No one will confuse these two categories. But there should be two or four theories of fetishism. And there cannot be three of them. It is contradiction, and it must be resolved.
	$M = M_t$ is the total commodity mass as meters of fabric or tons of wheat	

§3.4.2. Is there a universal market molecule?

We are studying an ideal political economic gas, i.e., a small-scale market where only one commodity is sold and bought. For example, boots. Boots are changed to boots. The market with five commodities is a mixed gas. But thousands of commodities are sold on the real market. The calculation of a mixed gas with 1000 different types of molecules will be very difficult. Is there a universal commodity molecule?

At first glance, a universal commodity exists, and it is gold. After all, gold is a commodity of commodities, it is a universal commodity. But gold functions as a value, as a half of a universal commodity. And there is no second half.

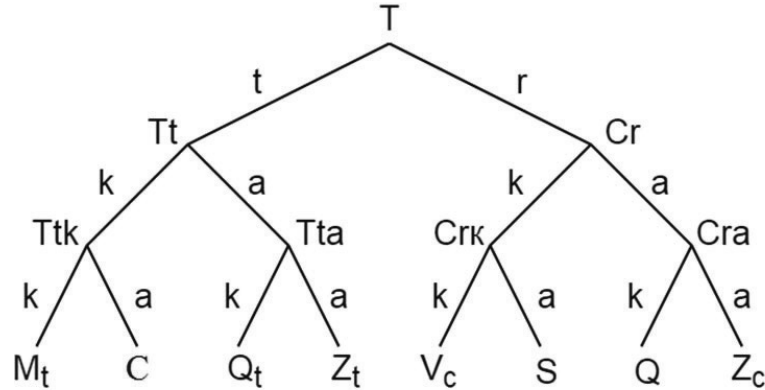
Hegel. The philosophy of law.

Hegel's theorem. "By alienating the whole of my time, as made concrete through work, and the totality of my production, I would be making the substantial quality of the latter, i.e. my universal activity and actuality, or my personality itself".

Consequence 1. According to Hegel, from the point of view of the essence, the worker of capitalism is also a slave. And it is true. The worker of capitalism is a money slave.

Consequence 2. According to Hegel, a small-scale producer sells his essence on the market, so he sells himself.

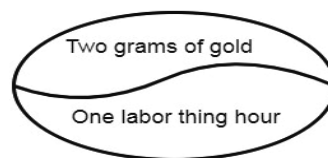
According to Hegel, we can assume that a small-scale producer sells his labour time on the market V_t . In this case the commodity mass is not tons of wheat, it is the total thing labour time. The half of the main political economic graph can be as follows:



Dialectical pair $\begin{pmatrix} V \\ M \end{pmatrix}$ can be as follows: $\begin{pmatrix} V_c \\ V_t \end{pmatrix}$			Units of measure
$\begin{pmatrix} V_c \\ V_t \end{pmatrix}$	V_c is the total labour time as a value	V_c is twice the value category compared to V_t	Labour value hour
	V_t is the total labour time as thing, as mass	V_t is twice the value category compared to V_c	Labour thing hour
	Categories V_t, V_c have different dimensions.		

Lemma. The category commodity MASS (thing) V_t and the category labour value V_c do not coincide numerically during crises.

If the value of one labour thing hour is equal to two grams of gold, then the universal market molecule (if it exists) will be as follows:



If an expensive car costs 1000 labour hours, then it can be represented as 1000 molecules. And here we see that it is easy to confuse the categories V_c and V_t , and sick labour fetishists will definitely do it. Thus, we have restored the number of theories of thing fetishism. There are four of them now. One contradiction has resolved, but there is a new problem.

Category $M = M_t$ is the commodity mass. It is measured in meters of fabric or tons of wheat. And if we enter the V_t category instead of M_t category as COMMODITY MASS, then one unit of measurement will disappear. And this is very bad. There are two options.

Option No.1. There is no V_t category and $V_C = V$. Dialectical pair: $\left(\frac{M}{V}\right)$. There is no universal market molecule.

Option No.2. There is V_t category. And there is universal market molecule. **Dialectical pair:** $\left(\frac{V_t}{V_C}\right)$. There is no more one unit of measurement.

Results. The question of the existence of a universal market molecule is still open. In the future, we will not be looking for a universal market molecule. So now we understand commodity mass as tons of wheat or meters of fabric. We need simplify the notation system:

$$M_t = M, V_C = V.$$

§ 3.5. The fifth theory of thing fetishism. Fetishism No.5. The theory of socialist (state) fetishism of Marx-Lenin

This theory is also a consequence of Hegel's theory of thing fetishism. It is stated in the works of Hegel, Marx, Engels, Lenin. Lenin's book is "The State and the Revolution".

Hegel's theorem. In the world of ESSENCES, the STATE is ideal, it is the RELATION of people (classes).

Hegel's theorem. In the world of ESSENCES, the STATE is "PARTICULAR WILL OF INDIVIDUALS".

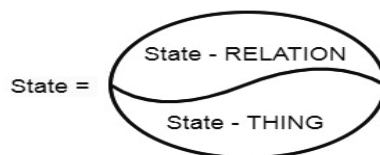
According to Hegel, in the world of essences, the STATE is a COMMAND, the state is a UNITY of COMMAND, the state is the COMMANDED RELATION of PEOPLE.

Consequence. The COMMAND and the UNITY of COMMAND is the ESSENCE of the STATE.

Hegel gave only half of the definition of the state: only in the world of ESSENCES. And there is no definition of the state in the world of PHENOMENON. Lenin always gives all the definitions and theorems in pairs.

The second half of Lenin's theorem.

Theorem. The state in the world of PHENOMENON is a THING, this is the police, this is the army, these are the courts, these are the chiefs. The state is a dialectical pair:



The STATE-THING is the courts, the army, the police, the chiefs. STATE-RELATION is the production relation of people in the state. In the state, people communicate with each other not in a human way, not as humans. They communicate with each other by COMMANDS, like robots, like machines.

And when millions of people turn to each other with COMMANDS, then a GREAT IRON ROBOT STATE is born. And this robot is a LIVING MACHINE. No one controls it, not ministers, not presidents, not Stalin. The state grows itself. The state is a living iron robot. Stalin did not rule the STATE. He faithfully served his iron God STATE. Through its greatest priest, Stalin, the Socialist State fulfilled its historical destiny and went down in history.

The great Hegel is the first person in history who gave the correct definition of the STATE. But no one knows Hegel. Hegel is still the unknown leader of mankind. One more time we repeat Hegel's theorems:

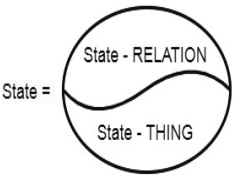
Definition of the STATE. Hegel.

In the world of essences, the STATE is "PARTICULAR WILL OF INDIVIDUALS".

In the world of essences, the STATE is the COMMAND, it is the COMMANDED RELATIONS OF PEOPLE.

The essence of the state is in the COMMAND.

The essence of the state is the STATE-RELATION, this is the commanded relation of people. From the point of view of the essence, the state is a command, it is the UNITY of COMMAND.

	The world of ESSENCES	Hegel's theorem. In the world of essences, the STATE is a COMMAND, it is a UNITY of COMMAND, it is a commanded relation of people.
	The world of PHENOMENON	The state is courts, army, police, officials, chiefs.

Marx. Communism is the abolition of the state, including the socialist state. The commune is a global community.

Returning to the community according to Hegel's triad:

Community (primitive)→state→ scientific community.

According to Hegel, the state is not an army, not the police, not the courts. No, the state is an COMMAND. What is the cause of violence in the modern world? Answer: the police, the army.

Hegel replies: "This is not true". The state is neither the army nor the police. And the cause of violence is neither the army nor the police. The cause of violence is the COMMAND and UNITY of COMMAND. People, bound together by COMMANDS, turn into a huge iron robot – the state.

The theorem of Marx and Hegel

The destruction of the state does not mean the destruction of the army and the police. The destruction of the state is the DESTRUCTION of the COMMAND.

Under communism, the army and the police become Communes of Brothers. All decisions are made by the COLLECTIVE INTELLIGENCE. The violence disappears. Hegel's theorem says that communism is possible in a separate state.

Sick thing fetishists did not study Hegel, and they do not know the Hegel's theory of the state. They think that real state is STATE-THING, what means: courts, army, police. And these people get sick with a mental illness called THING FETISHISM. They see the whole story upside down.

These sick thing fetishists are faithful Stalinists. They worship their IRON IDOL – the Socialist State. They do not believe in any communism. And they are not going to build communism. They consider communism to be the great iron robot machine of the Socialist State. They con-

sider their IRON IDOL to be a real god, powerful, eternal, immortal. Therefore, the Stalinists destroyed all the thousands of Communes that Lenin had founded.

It is impossible to combine communism and socialism. Communism is a stateless system, it is a system without a leader. Communism is a GLOBAL COMMUNITY. Under communism, the Supreme Soviet, the General Staff, ministries, factories, schools, hospitals, divisions will become Communes of brothers. Issues will be solved by COLLECTIVE INTELLIGENCE, not by issue. The UNITY OF COMMAND will be destroyed.

These are the mistakes made by the theory of socialist state fetishism. Stalinists: “Stalin won the war. Stalin built factories”.

The Stalinists understand the POWER of the PEOPLE in the hands of the State as the POWER of the state itself. They do not understand simple things. They do not understand that all the victories of socialism were won only because workers believed in The Socialist State, and they considered The Socialist State a just system.

It is time for the second coming of Lenin. Lenin said: “Any state is NOT A PEOPLE’S state”. The socialist state has fulfilled a historical role, and has ceased to be a deity for the working people. So, it is time for a new deity.

The working people stopped supporting the socialist state, and without such great support, the socialist state was blown away by the historical wind. And it turned out that the socialist state has no power anymore.

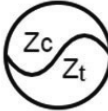
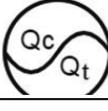
The Stalinists became metaphysical fanatics. They were living machines, they were parts of their iron robot. Machines do not have minds. That is why the Stalinists had a big problem. Their eternal and all-powerful God-state had disappeared. At first, this great iron ROBOT performed feats, saved the country and all of humankind. And then he was gone. “Stalin, Stalin” – called the Stalinists their great Iron God. But there was silence in response. Socialism died of old age. It has fulfilled his historical duty. Socialism was no longer possible, and was no longer needed. He honestly passed his valiant and noble path.


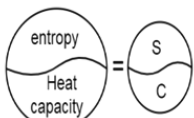

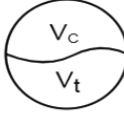
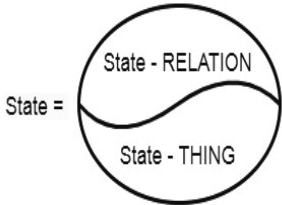
Communism was built bypassing socialism. The socialist king, General Secretary, was dead! Long live the new queen:

“GLOBAL SCIENTIFIC COMMUNE!”

All theories of fetishism are consequences of the Hegel’s theory of THING FETISHISM. We need the eight-dimensional space of Marx’s categories to include the theory of fetishism in the general logical scheme.

§3.6. Table of thing fetishistic theories

Fetishism theories				
No	thing	Dialectical pairs		Political economy sick THING fetishists
1	Marx’s theory of THING-VALUE FETISHISM		Z_c is value	Sick people take the GOLD-THING for VALUE - Z_t
			Z_t is gold-thing that contains value	
2	MONEY		Q_c is the value that is contained within a money thing Q_t	Sick thing fetishists take money-thing for real wealth Q_t . But they are wrong. The real

			Q_t is real money supply. It is determined after sales.	wealth is the value Q_C , which is contained in the money supply.
3	CONSUMER		S is use value (entropy)	Sick thing fetishists take a consumer thing for a use value. They take the heat capacity of the body for entropy. The theorem. Entropy is the value of the thermal mass, the value of the heat capacity of the body.
			$C = \frac{\delta Q}{d\theta}$ is consumer thing (thermal mass). $MC_V, Nk?$	
4	LABOUR		V is labour value of the commodity mass M	Hypothesis. Category V_t exists. Then there will be a theory of labour fetishism, and there will be sick labour fetishists. It is still unknown. The existence of a universal molecule V_t has not been proven.
			$M(V_t)$ is labour thing, commodity mass	
5	The theory of socialist (state) fetishism			Hegel's theorem. In the world of essences, the state is a state-relation, it is an COMMAND, it is a commanded relations of people
				Sick thing fetishists consider the state to be a state-thing: courts, army, police.
Examine TRANSITIONS: BASIS \leftrightarrow SUPERSTRUCTURE				
Theorem. Thing fetishism is a political economic inverting lens. And this lens turns all phenomenon upside down in the representation of the thing fetishist.				

How to apply the theory of thing fetishism in life?

The Stalinists say: "The people are to blame". We turn this statement over and get: "The state is to blame". It has fulfilled its historical duty. It has become old, so it is gone.

Question. Can an optical lens turn over only one thing and not all? It cannot. The political economic inverting lens also cannot turn over some statements, and not turn over other conclusions.

Marx's theorem. Thing fetishism is an inverting lens.

This theorem was discovered by Marx. The authors have established that this theorem is a universal logical law. At certain moments of logical time, all pairs are turned over without exception. A detailed description of the theory of inverting a pair is in the book of the authors. Thing fetishist are totally useless idiots.

Chapter IV. Axiomatization of the VALUE, not MONEY MARKET

§ 4.1. Small-scale value market as an ideal two-dimensional political economic gas

The value market is a market where people pay with VALUES, not with gold money.

MARX'S CATEGORY "QUANTITY OF LABOUR" – V_C .

Dialectical pair:



M category is commodity mass. It is measured in tons of wheat or meters of fabric. This is a real category. V_C category is value category. Marx called it "THE QUANTITY OF LABOUR", but the value of what?

Answer. Commodity mass M tons of wheat costs V_C labour hours. The production of M tons of wheat costs V_C value labour hours.

The quantity of labour V_C is labour inputs. The quantity of labour is measured by VALUE LABOUR TIME. If the commodity took an average of 100 hours, then the quantity of labour V_C is 100 value labour hours. The labour hour and the physical hour do not coincide. Why?

Worker packs the commodities in bags. The time, which spent on packing and carrying heavy loads, is labour time; it creates value. The time, which spent manipulating money, is parasitic time; it creates no value.

The director of the clinic is a practicing surgeon. The time, which spent on operations, is labour time, and the time, which spent on management, is parasitic time.

The QUANTITY OF LABOUR V_C is measured in labour value hours. This category is an analogue of the concept of VOLUME from physics. The quantity of labour is the volume of spent labour.

Units of measure

Categories	The quantity of labour. The volume of spent labour. The volume of gas in physics – V		Name on the graph	Units of measure	
V_t	The quantity of labour as a THING.	Thing category	T_{tkk}	Thing labour hour	$[tLh]$
V_C	The quantity of labour as a RELATION.	Value category	T_{rkk}	Value labour hour	$[CLh]$

For mathematicians

Philosophy and political economy are not commutative. Therefore, the expressions "thing labour hour" and "labour thing hour" may not be equivalent. But there is only one truth.

Suggestion. Within the framework of creating a minimal political economy, we suggest to call the category V_C not the quantity of labour, but the volume of labour.

VALUE is denoted as U . The unit of value is denoted as $1[C]$.

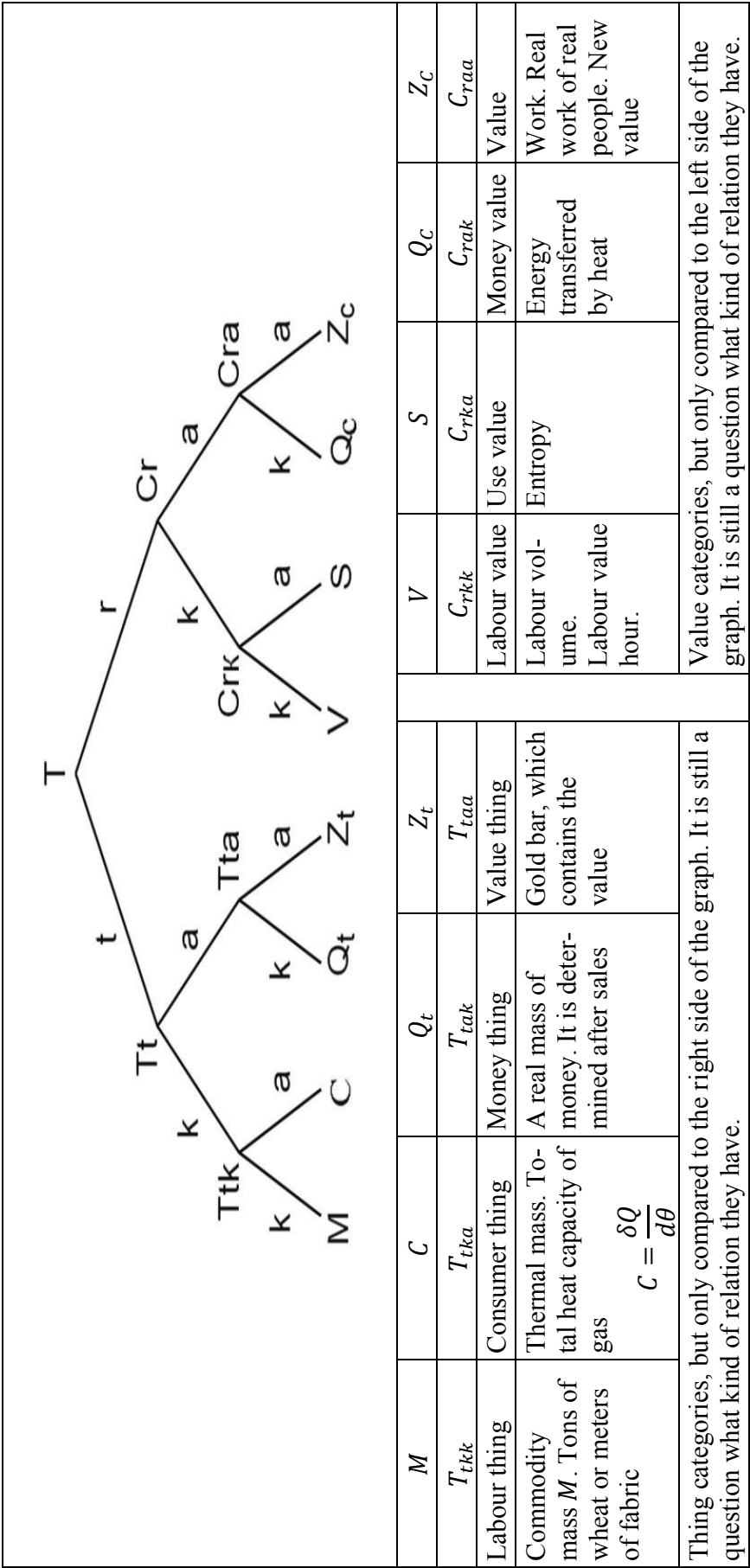
THE AXIOM OF VALUE. If the market is large, isolated and equilibrium, then we can assume that the QUANTITY of LABOUR and the VALUE are approximately EQUAL, so $U \cong V_C$.

The category VALUE is born in a total form, as the total value. And only then, a small part of the value is selected for the commodity.

There is the birth of the value of the only one commodity. The total value is denoted as U . The value of the commodity is denoted as U_1 , and the quantity of similar commodities is denoted as N . It is for similar commodities:

$$U_1 = \frac{U}{N}.$$

Half of the main political economy graph looks as follows:



The main market in the world of essence is THE VALUE MARKET, not THE MONEY MARKET.

Definition. The VALUE MARKET is an abstract market in which payment is made directly by the VALUE. The laws of the value market should be studied above all, because MONEY is only a SUPERSTRUCTURE over VALUE.

§ 4.2. The functioning of the VALUE, not the money market

The VALUE, not the money market				
Small-scale producers	pair of boots	The quantity of labour	Dimension	Commodity
The first	$N_1 = 4$	$V_1 = 9 [Lh]$	$[CLh] -$ Value labour hour	Commodity is pair of boots
The second	$N_2 = 5$	$V_2 = 10[Lh]$		
The third	$N_3 = 6$	$V_3 = 11[Lh]$		
$N = N_1 + N_2 + N_3 = 15$		$V = V_1 + V_2 + V_3 = 30$		
Exchange rule: BOOTS are exchanged for BOOTS				
The main task: “HOW ARE THE VALUES DISTRIBUTED?”				

Solution. The total quantity of pairs of boots:

$$N = N_1 + N_2 + N_3 = 4 + 5 + 6 = 15$$

The total quantity of labour. In labour hours, the quantity of labour is equal to:

$$V = V_1 + V_2 + V_3 = 9 + 10 + 11 = 30$$

According to the AXIOM of VALUE, the total quantity of labour and the total value are equal to: $U = V$. We get the total VALUE: $U = 30$ values. The value of one pair of boots is equal to: $s = \frac{U}{N} = 2$ values.

Value distribution table

Small-scale producers	Values	The quantity of labour	Relation
The first	$C_1 = \frac{U}{N} N_1 = 8 [C]$	$V_1 = 9 [Lh]$	$\theta_1 = \frac{C_1}{V_1} = \frac{8}{9}$
The second	$C_2 = \frac{U}{N} N_2 = 10[C]$	$V_2 = 10[Lh]$	$\theta_2 = \frac{C_2}{V_2} = \frac{10}{10} = 1$
The third	$C_3 = \frac{U}{N} N_3 = 12[C]$	$V_3 = 11[Lh]$	$\theta_3 = \frac{C_3}{V_3} = \frac{12}{11} = 1 \frac{1}{11}$

The first shoemaker lost this game. He actually worked 9 labour hours, but got only 8 values. The second shoemaker did not lose or win. The third shoemaker won. He worked 11 labour hours, but got 12 values.

We have got the distribution of values by labour hours. In the value model of the market, this distribution should be set axiomatically, as Maxwell did. It follows from the law of the unity of the world that there must be a fundamental value constant in political economy.

Labour hours are called value labour hours.

§ 4.3. The axiom of the FUNDAMENTAL VALUE CONSTANT

To derive the FUNDAMENTAL VALUE CONSTANT, we make the following assumptions:

1. It is the VALUE market. Payment is made by the value. There is no money yet.
2. The market is equilibrium and isolated.
3. We study an ideal gas.
4. We study the work of a large market for a certain period of time.

The total quantity of labour is equal to V , and the total value of commodities sold on the market is equal to U .

Definition. The fundamental value constant is called:

$$p = \frac{U}{V}$$

Discussion. According to the axiom of value:

$$U \approx V$$

Consequence. The fundamental value constant of the value equilibrium market is equal to one:

$$p = \frac{U}{V} = 1.$$

The political economic sense of the FUNDAMENTAL VALUE CONSTANT.

Hegel's theorem. To appropriate a person's working time means to appropriate his ESSENCE.

METHODS

From the point of view of Hegel's theorem, THE ESSENCE of a person IS IDENTICAL to his WORKING TIME. Therefore, U represents a society of political economic people. Therefore, the VALUE is the ENERGY of the HUMAN (society) in political economy.

Here are the formulas for two-dimensional physical thermodynamics:

Internal energy: $U = RT = N_A kT$.

Here is a table of analogies between an ideal gas with two degrees of freedom and the value market.

Definition. We consider one commodity as one mole:

$$N_A = 1, k = k_C = k_t = 1, R = 1, c_V = 1k, c_P = 2k.$$

Let us remind: value is denoted as C , not V .

Units of measurement. The logical measurement system is set by the main political economy graph. It is unmistakable. Now we turn to the physical and political economic system of units. And there are possible some mistakes.

The value in Marx's CAPITAL on the graph was denoted as C_{raa} . It is the fourth coordinate of the vector $\overrightarrow{\text{VALUE}}$. For brevity, we called it an abstract value. The word "value" was an auxiliary category.

Let us simplify the notation system. We will call the value in the Marx's CAPITAL just "value".

Categories	Political economy	Formulas	Dimensions	Analogies
The labour value of the entire commodity mass	The quantity of labour	$V_C [CLh]$	Value labour hour	Volume
The total value	Value	$U[C]$	Value	Internal gas energy
The value produced by the real work of real people	Value	$A[C]$		Gas work
Money value	Value	ΔQ		Q – heater energy
Fundamental constant of human value	?	$p = \frac{U}{V} \left[\frac{C}{CLh} \right]$	$\frac{Value}{Value\ labour\ hour}$	p – market pressure
Commodity mass	M	Meters of fabric or tons of wheat		Mass
	N	thing		Number of molecules
Consumer mass	Mc_V	Thing categories		The thermal mass. The total heat capacity is $C = \frac{\delta Q}{d\theta}$.
	Nk			
	C			
Money value of consumer mass units. Price	θ			Temperature
Heat capacity Boltzmann constant	$k_t \equiv c_V?$	The unit of consumer mass in the formula		Unit of heat capacity
Use value	S	The unit of use value in the formula: $S = k_C \ln(W)$		Entropy
Boltzmann's entropy constant	k_C			Unit of entropy
Labour value of unit of consumer mass (not a commodity)		$\frac{V_C}{Nk}$?	?
The labour value of the commodity unit		$\frac{V_C}{N}$	Value labour hour	
The labour value of the commodity mass unit		$\frac{V_C}{M}$	$\frac{Value\ labour\ hour}{Meter\ of\ fabric}$	

A logical contradiction in the definition of a fundamental constant: $p = \frac{U}{V}$.

The category $V = V_C$ is the value category in our model. But the value should answer the question: “The value of what?”. Therefore, the value can only be the value of the thing. There is no value of value. But we have defined the fundamental constant precisely as the value of value. What should we do then?

The labour value V_C has a logical name on the main political economic graph: C_{rkk} . Thus, the labour value category is once a value and twice a thing category. And the value category U has the logical name C_{raa} . It is three times the value category. According to the principle of relativity, the labour value V_C compared to U category is a double thing category.

Formal abbreviation of fractions:

$$\frac{raa}{rkk} = \frac{aa}{kk} = \frac{\text{twice an abstract category, compared to}}{\text{twice a thing category, compared to}}$$

Note 1. It was not easy to accept the hypothesis that the fundamental value constant is an analogue of pressure. All the time we wanted to take it for a temperature. But, then the ideal gas law did not work.

Note 2. We took the price of the commodity in energy units as the market temperature. We believe that only one commodity is sold on the clear market. And if there are several commodities, then you need to consider a mixed gas, consisting of several different gases.

Note 3. The fundamental value constant is equal to one, only in stationary conditions. In transition processes, it will differ. All equations are written in differentials in transition processes:

$$dU = d(pV) = Vdp + pdV.$$

Crises are transition processes. In crises, unsold commodities are destroyed, and the total value can remain unchanged. This means that in crises: $p \neq 1$.

List of value categories				
A	p	C_{raa}	Marx's abstract value	Pressure, work
Q_C	θ	C_{rak}	Money value	Temperature, thermal energy
S	k_C	C_{rka}	Use value	Entropy and the Boltzmann entropy constant.
V_C	V	C_{rkk}	Labour value	Volume of labour

List of thing categories.			
Z_t	T_{taa}	Twice abstract THING	A gold bar as a THING, as a carrier of VALUE
Q_t	T_{tak}	Money THING	The real money supply as a THING, as a carrier of money value. It is determined after sales
C	T_{tka}	Consumer THING (consumer mass)	Thermal mass. The total heat capacity of the market (gas): $C = \frac{\delta Q}{d\theta}$
M	T_{tkk}	Labour THING	Commodity mass. Tons of wheat or meters of fabric

Joint list of thing and value categories		
$\begin{pmatrix} Z_C \\ Z_t \end{pmatrix}$	The abstract value Z_C is the value of an abstract thing Z_t (gold bar)	The abstract thing Z_t (gold bar) contains an abstract value Z_C
$\begin{pmatrix} Q_C \\ Q_t \end{pmatrix}$	The money value Q_C is the value of a money thing Q_t	The money thing Q_t contains the money value Q_C . It is determined after sale.
$\begin{pmatrix} S \\ C \end{pmatrix}$	The use value (entropy) S is the value of the consumer thing $C (MC_V, Nk)$ (thermal mass)	The consumer thing $C (MC_V, Nk)$ contains the use value S . The theorem. Entropy is the value of the total heat capacity.
$\begin{pmatrix} V_C \\ V_t \end{pmatrix}, \begin{pmatrix} V_C \\ M \end{pmatrix}$	The labour value V_C is the value of the labour thing $M(V_t)$	The labour thing M, V_t contains the labour value V_C
<p style="text-align: center;">The thing coal contains thermal energy (value).</p> <ol style="list-style-type: none"> 1) This thermal energy is the thermal value of coal. 2) This thermal energy (value) is not identical to coal-thing. 3) Marx's theorem "VALUE IS A RELATION (of people or things)" 4) Consequence. The thermal value of coal is the RELATION of coal to other SUBSTANCES. If there is no oxygen, then there is no value (thermal energy). If there is little oxygen, then coal-thing contains little thermal value. 5) The thing fetishist identifies value (thermal energy) with coal-thing; he sees the whole world upside down. The thing fetishist takes the consequence for the cause. 6) The thing fetishist is a mentally ill person, a person with an upside-down mind. But thing fetishism is not a medical mental illness; it is a political economic mental illness. From the point of view of medicine, the thing fetishist is an absolutely healthy person. 7) Attacks of the disease of thing fetishism occur in transition processes. In these processes, it is clear that the fetishist is completely inadequate. 		

Theorem.

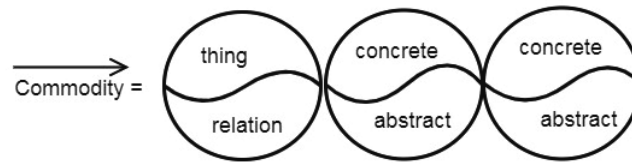
1. The Boltzmann's entropy constant is a unit of USE VALUE.
2. The Boltzmann's entropy constant is not a unit of commodity, not a unit of commodity mass, but a unit of consumer (thermal) mass.

After all, we have a market for only one commodity, for example, "pair of boots". The molecule of our market is "pair of boots". We exchange boots for boots. The market with various commodities is a mixed political economy gas.

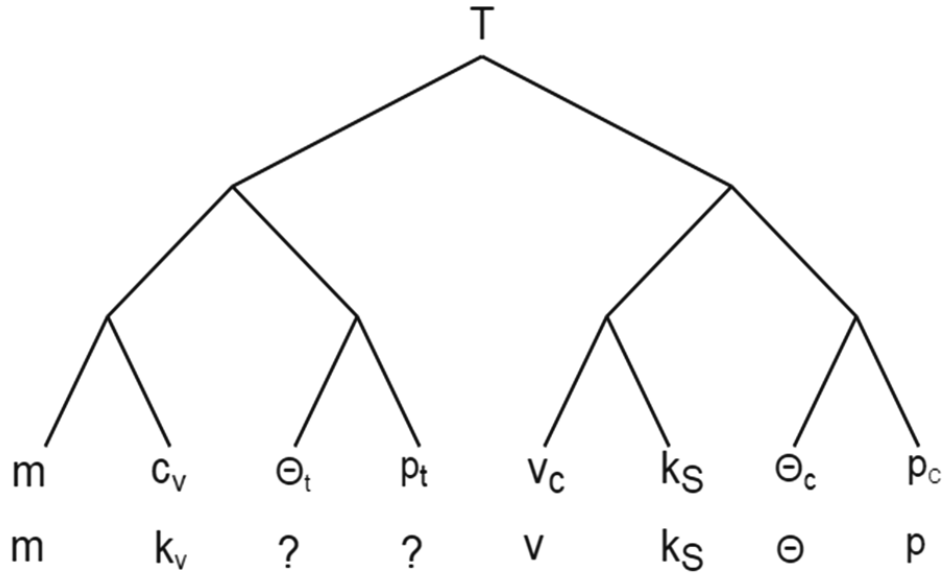
§ 4.4 Half of the main political economy graph is the graph of unit values of the vector $\overrightarrow{\text{COMMODITY}}$.

Lenin's theorem. Categories must be derived!

There are only the total values on the graph of vector $\overrightarrow{\text{COMMODITY}}$. This graph is obtained by multiplying three pairs:



There is no temperature and pressure on the graph, but they must be there. How can we do it? Following Lenin, it is necessary to specify some logical process that leads from the total values to unit values. We have not found such a process, but we set the graph of unit values:



Here is a possible way to switch to unit values. There is a market, which contains one copy of the commodity with individual characteristics. There is nothing to exchange it for. If we are given the fundamental constants, then all the other market parameters can be derived, but we will not do this. We want to give a list of extensive quantities and point out that not all of them are independent. Therefore, not all of them will be unit. You need to set the basic values and calculate all the other values.

Description of the categories of unit graph			
Thing categories			
m	Unit of commodity mass	Unit of mass	m
c_v, k_v	Unit of consumer mass	Unit of heat capacity	c_v, k_v
θ_t	A piece of gold that has a money value	Thing temperature	θ_t
p_t	A piece of gold that has an abstract value	Thing pressure	p_t
Value categories		Energy categories	
v_c	The value of a labour thing hour	Unit of volume	v
k_c	Unit of use value	Boltzmann's entropy constant	k_c
θ_c	The money value of unit of consumer mass	Temperature	θ
p_c	Abstract value of unit of use value	Pressure	p

A new logical problem

The values p, θ are pressure and temperature. They are value (energy) values. But now we have the thing pressure p_t and the thing temperature θ_t . There are no such values in physics. And we need to explain this contradiction. After all, one such small contradiction can destroy the entire work of the authors.

Question

There must be discrepancies between physical thermodynamics and political economic thermodynamics, and they must be found.

In physical thermodynamics, only transition processes make sense. This is not the case in economics. The total values (gross product) are important in the economy.

The authors doubt about the question: “WHAT IS THE VALUE?”

The authors have written a whole book. However, doubts do not leave them even in the very first question. So, the main question is: “What is the value?”

Version No.1. The total value is the total internal energy.

Version No.2. The total value in transition processes is only a WORK, so by value, we mean only the newly created value. Maybe the whole secret of value is kept in transition processes?

Question. Energy and pressure have different dimensions. So the fundamental value constant p (pressure) is not a value. Is this a good thing or a bad thing?

Answer: Z_c category is the total value of the total labour value V_c .

Therefore, the value p_c is the value of a unit of labour value V_c .

Pressure is the energy value of a unit of volume.

§ 4.5. The LAW OF VALUE and the ideal gas law of Mendeleev-Clapeyron are one and the same law

The ideal gas law of Mendeleev-Clapeyron for the VALUE market

Theorem. The ideal gas law of Mendeleev-Clapeyron is equations of state for the “ideal political economy gas” market.

Thus, both the physical ideal gas and the political economic ideal gas obey the same equation:

$$U = pV = Nk\theta.$$

PRICE category is mathematical expectation of a theoretical random variable. A specific price of sold commodity is experimental, statistical manifestation of this theoretical random variable.

Theorem. The equations of the market state are described by the ideal gas law in energy units:

First version	$pV_c = Nk\theta;$
Second version	$pV_c = Mc_v\theta$

The ideal gas law has three value categories and one thing category		
p	Abstract value	Value category
θ	Money value	Value category

V_C	Labour value	Value category
Nk	Consumer mass	Thing category. Thermal mass. The total heat capacity of the body in the equilibrium state
Mc_V		The total heat capacity of the body in the transition processes
C		

Some categories are three times value, other categories are three times thing, and so on. It is necessary to adhere to the principle of relativity: thing category in compared to...

Formulations of THE LAW OF VALUE in the ideal gas law.

Comparison of the law of value and the ideal gas law for the value market	
The ideal gas law	THE LAW OF VALUE
The value market	
$\theta = p \frac{V_c}{Nk}$	THE LAW OF VALUE . In the isobaric process, the theoretical price of a unit of consumer mass of commodities is directly proportional to the labour value of a unit of consumer mass of commodities. The proportionality coefficient is a fundamental constant p .
$\theta = p \frac{V_c}{Mc_v}$	
The law of value. In the isobaric process, the money value (price) of a unit of consumer mass is directly proportional to its labour value	

The law of value. THE VALUE OF WHAT? The value of the thing.

Lemma:

$$\begin{aligned}
 \frac{V_C}{Mc_V} &= \frac{\text{value category compared to ...}}{\text{thing category compared to}} = \frac{\text{labour value}}{\text{consumer mass (thing)}} \\
 \frac{V_C}{Mc_V} &= \text{the value of a unit of a unit of thing category!} \\
 \frac{V_C}{Mc_V} &= \text{the labour value of a unit of CONSUMER MASS (thing)}
 \end{aligned}$$

The mistake of thing fetishists

The commodity mass M and the consumer mass $C = \frac{\delta Q}{a\theta}$ are not the same thing. The commodity mass is measured in tons of wheat, meters of fabric. But it is possible to measure the commodity mass and the number of molecules – N . So the commodity mass is the number of molecules.

The commodity mass is the consumer mass multiplied by the heat capacity of the market. It is equal to Mc_V or $C = \frac{\delta Q}{a\theta}$ in transition process. Thus, the consumer mass is the total heat capacity of the

gas. The total heat capacity of a gas in transition process is a variable value. It can change when the commodity mass remains a constant value.

What is sold on the market?	
Thing fetishist	Anti-fetishist
The market sells COMMODITY MASS – M tons of wheat or meters of fabric	Hegel: “This is an appearance”. In fact, the CONSUMER MASS is sold on the market – Mc_V . It depends on the heat capacity of the market. In transition process, the total heat capacity is sold on the market C .
What does the buyer pay for?	
The buyer pays for the commodities: for tons of wheat, for meters of fabric, for the commodity mass M .	Hegel: “This is an appearance”. In fact, the buyer pays for the CONSUMER MASS C (Mc_V), not for the commodity mass. In transition process, the buyer pays for the thermal mass – the total heat capacity $C = \frac{\delta Q}{d\theta}$.
<p>The ideal gas law in the law of value:</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border-left: 1px solid black; padding-left: 10px; margin: 0 10px;"> <p>First version $\theta = p \frac{V_C}{Nk}$</p> <p>Second version $\theta = p \frac{V_C}{Mc_V}$</p> </div> </div> <p>The equation shows that the payment is not for a unit of commodity mass M, but for a unit of consumer mass Mc_V.</p> <p>Lemma. In the isobaric process, the money value (price) is not the value of a unit of commodity, not a unit of COMMODITY MASS M, but the value of a unit of CONSUMER MASS C.</p>	
THE LAW OF VALUE	
<p>Theorem. In the isobaric process, the money value (price) of a unit of consumer mass is directly proportional to its labour value.</p> <p>Entropy is the value of heat capacity.</p>	

How to measure USE VALUE?

The use value of the consumer mass is the entropy S . It is impossible to measure it, but it can be calculated for any transition process.

Hegel pointed out that use value can be measured. And as always the leader of the dialectics was right.

The theory of the two comings of the market

The theory of the two comings of the market can help to solve some logical problems.

The first coming of the market.

The first coming of the market means the birth of an equilibrium market. There have been multiple sales, purchases, and manufacturing of commodities. So, the market has stabilized and become equilibrium. So, the market was born. It means that all the categories PRICE, VALUE, USE VALUE, MONEY have already been born.

The second coming of the market.

A new transition period has begun. And our task is to predict the behavior of the market in the transition process.

The transition process is a disaster. The old market is dying. It means that all the old categories are dying: PRICE, MONEY, VALUE. After the disaster, a new market is born, and new categories are born: PRICE, MONEY, VALUE. It means that new MONEY is not the old MONEY. But according to the law of NEGATION OF THE NEGATION, some features of the old money are still the same in the new money.

The main theorem of Marx's Capital is the theory of transition process. Marx's Capital is the theory of the second coming of the market.

The principle of determinism. Authors' formulation

Theorems and axioms of determinism are as follows:

- 1) There is only one DUAL ESSENCE and many SEMI-DUAL ESSENCES for any PHENOMENON.
- 2) THE DUAL ESSENCE both corresponds to the PHENOMENON and exhausts the PHENOMENON.
- 3) SEMI-DUAL ESSENCES either correspond, but do not exhaust, or exhaust, but do not correspond (contradict).

Here we consider the categories PHENOMENON and ESSENCE to be dialectical.

What did the authors introduce into the principle of determinism? The authors introduced the concept of "semi-dual categories". It is impossible to justify the principle of determinism without these semi-dual categories. Semi-dual categories logically introduce elements of chance into Hegel's "Science of Logic".

Here we study the society of small-scale producers, a society that has never existed. We consider the global market to be a THERMOSTAT. It is assumed to be in an equilibrium state. Supply and demand on a global scale equalize each other. As it should be in thermodynamics, we do not study the world market. We select a small part of the global market and study it.

So, we are considering a separate local market within the global market. World market (thermostat) this is a huge ocean. We assume that it is in equilibrium state. This ocean has some waves (fluctuations). Since the ocean is huge, large waves are likely to appear. Such waves for the market are a crisis and a disaster.

The political economic meaning of the fundamental constant of human value

The fundamental constant of value for the ideal world market of small-scale producers is equal to one:

$$p = \frac{U}{V} = 1 \left[\frac{C}{Lh} \right] = 1 \left[\frac{\text{Value}}{\text{labour hour}} \right].$$

The introduction of the fundamental value constant is a discovery. Indeed, we have discovered that the pressure of the world market is equal to ONE. This discovery is comparable to the discovery of atmospheric pressure on the planet. The fundamental constant of value expresses the great idea of the EQUALITY of people as values. Two groups of producers are equal to each other if their fundamental value constants are equal.

Closure of the dialectical spiral. Return to Pythagoras

Theorem. The greatest FUNDAMENTAL CONSTANT of humankind is the VALUE CONSTANT:

$$p = 1 \left[\frac{C}{th} \right] = 1 \left[\frac{Value}{Labour\ hour} \right]$$

There are many great fundamental constants in physics, but the greatest of them is the UNIT ($p = 1$). Pythagoras would have been delighted.

Axioms of the distribution of political economic time (value)

The distribution of VALUES must be set AXIOMATICALLY. As you remember the example with shoemakers, we calculated the distribution of values by labour hours, but the distribution should be set by an axiom in the general model.

The value distribution curve is the most important curve in political economy. Finding the shape of this curve is the main task of the axiomatization of Marx's political economy. We did not find it.

An important question: Do political economy and physics completely coincide or not? The meaning of the question is as follows. A molecule can have a small speed and a small energy, 20% of the average energy. But a person cannot systematically sell his commodities at 20% of the average price. He is not a molecule, he can starve to death.

The mathematical meaning of the question is as follows: In political economy, are the distribution functions TRUNCATED OR NOT? If we believe that small-scale producers can starve to death if they sell less 20% of the real price, then the distribution function will be truncated. So the question is still: "TRUNCATED OR NOT?"

This question is equivalent to the question: "Are the random variables of political economy CONSTRAINED OR NOT?". Is it forbidden for the random variables of political economy to take any impossible values?

THE QUESTION OF THE NORMAL LAW

The normal law is a general philosophical law. The general philosophical form of this theorem is as follows:

The central limit theorem or the normal law theorem

Theorem. The normalized sum of a large number of independent commensurate random variables is always a normal random variable.

And we managed without it. Maxwell deduces everything from the normal law. It must work like this. But we were not able to repeat Maxwell's scheme.

Question. Can the VALUE of a unit of LABOUR VALUE be a normal random variable?

It cannot. The value is positive, and no approximations are allowed in strict axiomatic systems.

One of the possible ways to make Maxwell's scheme

If all small-scale producers work with the same productivity, then there is no competition and there is no market either! After all, the market is a competition and an accident. Therefore, the speed of a person's work should be understood as the degree of his superiority over other small-scale producers.

If a worker sells his labour hours, dividing them into equal shares of ΔV , but each element of the commodity contains a different number of values, then there will be such commodities on the market:

$$\frac{\Delta C_1}{\Delta V}, \frac{\Delta C_2}{\Delta V}, \frac{\Delta C_3}{\Delta V}, \frac{\Delta C_4}{\Delta V}, \dots, \frac{\Delta C_n}{\Delta V}$$

Perhaps, it is necessary to define axiomatically the distribution of the following values:

$$\frac{\frac{\Delta C_1}{\Delta V} - \frac{\Delta C_2}{\Delta V}}{\Delta V}, \frac{\frac{\Delta C_3}{\Delta V} - \frac{\Delta C_4}{\Delta V}}{\Delta V}, \frac{\frac{\Delta C_5}{\Delta V} - \frac{\Delta C_6}{\Delta V}}{\Delta V}, \dots, \frac{\frac{\Delta C_7}{\Delta V} - \frac{\Delta C_8}{\Delta V}}{\Delta V} ?$$

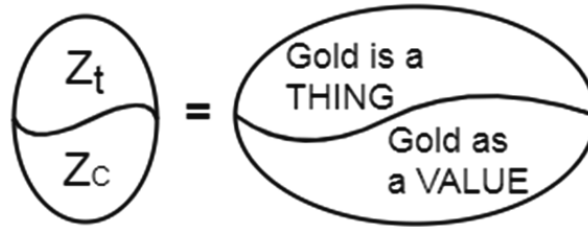
These values can also be negative. It means that a normal law is possible.

Chapter V. The money market and golden FUNDAMENTAL CONSTANT of value

§ 5.1. The small-scale money market with two degrees of freedom

In the money market model, the role of abstract value is played by gold (not by abstract time). But it does not play very well.

Criticism of GOLD-THING. If treasure is found, then prices will rise in an isolated market, but the total value will not change. So gold-thing is not a value. We have to consider the dialectical pair:



Definition. The value is this dialectical pair in a philosophical sense. The transitions GOLD-THING \leftrightarrow GOLD-RELATION determine the laws of the money market functioning.

The answer to the criticism of GOLD-THINGS. When the scale of prices changes, the gold-thing ceases to measure value in a linear way in the transition process. This is true.

But according to statistics: we can calculate the real change in the abstract value by the quantity of money and commodities. We can assume that gold is a golden thermometer with a nonlinear scale. And with this nonlinear scale, we can accurately calculate all the characteristics of the market. So that is all right: gold plus a mathematical model accurately measures all values.

But there is still a question. Therefore, consider the following categories of the money market:

V	volume of labour
U	time as an abstract value
Z	gold as a value

Is it possible to create a model in which the value is abstract time (not gold)?

Is it possible to create a model to include all three categories: V, U, Z ?

Version 1. It is impossible.

Version 2. It is possible. It is necessary to introduce gold producers in gold mines and organize the exchange of gold for food and other commodities.

Version 3. Producer classes, as well as the exchange between them, are needed.

§ 5.2. Determination of the fundamental constant of value of the money market

There is the first coming of the market. All categories have already been born. The market is in equilibrium.

Definition of the category Z . Z is the sum of the prices of all commodities sold on the market for a fixed period. Prices are always expressed in grams of gold.

V_c is the volume of labour spent on the production of the entire commodity mass.

Definition. The golden fundamental constant of value is called the value:

$$p = \frac{Z}{V_c}.$$

Results of building a money market model

We got the ideal gas law:

$$Z = pV_c = Nk\theta$$

We took gold for internal political economic energy. The analogy is not obvious. Justification. Under capitalism, the source of movement and energy of people is gold, money. According to Hegel's idealism, under communism, the energy of people will be the IDEA.

§ 5.3. Political economic sense of the golden FUNDAMENTAL CONSTANT of value

For example, $p = 0.5 \frac{\text{gram of gold}}{\text{labour hour}}$. This constant is the answer to the American's question: "How much are you worth?". Ivanov costs one hundred grams of gold, and Petrov costs a ton of gold. There are no people, people have not yet been born. There are only pieces of gold on the streets.

The philosophical interpretation of the inverse constant is much better:

$$\frac{1}{p} = 2 \frac{\text{labour hour}}{\text{gram of gold}}$$

Here we can assume that two human lives are buried alive in one piece of gold. Only one of these two versions can be correct, but it is not known which one. Marx's theory of fetishism is terrible thing, as you never know if you are standing right or upside down.

Service for calculating the gold fundamental constant of value

- 1) THE GOLD FUNDAMENTAL CONSTANT OF VALUE(p) of the world market on the planet is an analog of the atmospheric pressure on the planet.
- 2) It is necessary to calculate the gold fundamental constant of value with accuracy, both in the world market and in private markets.
- 3) Physicists have a service for calculating fundamental constants, the same service should exist for political economists. The law of the unity of the world!
- 4) The semi-universal constants of value of partial markets, when they function, generate one UNIVERSAL GOLD FUNDAMENTAL CONSTANT OF VALUE of the world market.
- 5) The universal gold fundamental constant of value (pressure p) of the world market is the regulator of all economic processes on the planet.

§ 5.4. Two ways to calculate the gold FUNDAMENTAL CONSTANT OF VALUE: via people and via commodities

The first way to calculate the total labour time via people

Version 1. There are the ideal political economic gas and the idealized market of small-scale producers. If we have N small-scale producers, and all of them work the same way for ten hours a day and two hundred and fifty days a year, then, the total physical time is $V = N * 10 * 250$ labour hours.

Version 2. There are the ideal political economic gas and N small-scale producers. But all of them work at different physical times in a year: $V_1, V_2, V_3, \dots, V_{M-1}, V_M$. The quantity of labour or total labour time is equal to: $V_c = V_1 + V_2 + V_3 + \dots + V_{M-1} + V_M$.

Version 3. There is modern monopolistic market. We take into account only labour hours, not parasites. We take only the labour part of the semi-parasites' labour time in the variable V .

Example. The head of the department, when he works as a teacher, is a worker. We take into account the teaching time, since his work as the head of the department is parasitic. This time is not taken into account, since it does not create value.

Example. The airport dispatcher and the power grid dispatcher are workers and their labour hours are taken into account. The Energy Minister is a parasite. Accountants and cashiers are parasites. Their parasitic time does not create value.

Example. Sellers are money parasites, but if the seller is forced to carry the commodities, to lay them out, then this part of the time will be counted. It is not easy to count the labour time of semi-parasites.

The second method of calculating the total labour time for commodities is as follows:

We observe COMMODITIES, not people. The second method IS TIMING required for the production of commodities. There is timing in all monopolies. If we have N commodities, and labour time $V_1, V_2, V_3, \dots, V_{N-1}, V_N$, spent on each commodity, then the total labour time is equal to:

$$V_C = V_1 + V_2 + V_3 + \dots + V_{N-1} + V_N.$$

The results of two different methods of calculating the total quantity of labour should coincide, because political economy is an exact science.

HOW IS THE GOLD FUNDAMENTAL CONSTANT OF VALUE BORN?

So, the total labour time was born. Then the gold fundamental constant of value is born. It is the pressure of the market:

$$p = \frac{Z}{V_C} \left[\frac{\text{gram of gold}}{\text{labour hour}} \right] = \frac{Z}{V_C} \left[\frac{gg}{Lh} \right].$$

§ 5.5. The theory of duality between people and commodities in a two-dimensional space of categories

Marx's political economic law in the ideal gas equation contains a duality between PEOPLE and COMMODITIES.

THE DUALITY of the political economic ideal gas equation	
$Z = pV_C = Nk\theta$	
pV_C	$Nk\theta$
people	commodities
This is the total political economic energy of people	This is the total political economic energy of commodities. This is the sum of the prices of all commodities in gold.
$pV_C = pV_1 + pV_2 + \dots + pV_{M-1} + pV_M$	$k\theta_1 + k\theta_2 + \dots + k\theta_{N-1} + k\theta_N$
"M" is the quantity OF PEOPLE!	"N" is the quantity OF COMMODITIES!
SUPPLY in people	DEMAND

Unambiguous definition of values of the categories DEMAND and SUPPLY	
The quantity of labour V_C is the total supply in LABOUR VALUES. Workers put up for sale their labour times in the form of labour values.	The value Nk is the market demand in the CONSUMER MASSES.
The value pV_C is the total SUPPLY in abstract VALUES	The value $Nk\theta$ is the total demand in abstract values.
There is always a duality between people and commodities!	

Lemma. It is impossible to give an absolute and unambiguous definition of the law of SUPPLY and the law of DEMAND within the ideal gas model.

The reversible transition process can be interpreted twice: both as a manifestation of the law of SUPPLY and as a manifestation of the law of DEMAND. The answer depends on the direction of the process.

The Mendeleev-Clapeyron ideal gas law	
The law of VALUE	The law of equality of SUPPLY AND DEMAND
$\theta = p \frac{V_C}{Nk}$	$pV_C = Nk\theta$
	$pV_C = M_{C_V}\theta$
Nk is the consumer mass. This is a thing category, not a value category	
THE LAW OF VALUE. In the isobaric process, the price (money value) of a unit of consumer mass is proportional to its labour value. The proportionality coefficient is the fundamental constant p	THE LAW OF EQUALITY OF DEMAND AND SUPPLY is an analogue of the law of conservation of energy.
The simplest version of the law of DEMAND and the law of SUPPLY separately	
THE LAW OF SUPPLY	THE LAW OF DEMAND
$V = \frac{Nk\theta}{p}$	$Nk = \frac{pV_C}{\theta}$
	$M_{C_V} = \frac{pV_C}{\theta}$
THE SUPPLY of labour values to the market will be fixed if the parameters $\frac{Nk\theta}{p}$ mutually cancel each other out	The DEMAND for the consumer mass will be fixed if the parameters $\frac{pV_C}{\theta}$ mutually cancel each other out
These theorems are not correct, but they can be made correct. Why? Because: 1) theorems outside of processes are prohibited; 2) the words supply and demand depend on the direction of the processes.	
Note. The market does not sell commodities and mass $M(N)$. The consumer mass is sold on the market. These are the values M_{C_V} or Nk in the equilibrium state.	
Consumer mass in transition processes is the total heat capacity: $C = \frac{\delta Q}{d\theta}$. Thus, in transition processes, the market sells the consumer mass $C = \frac{\delta Q}{d\theta}$, not the commodity mass $M(N)$.	

Lemma. In the isobaric process:

- a) The market price θ is not the price of the one commodity, because consumer masses (not values or commodities) are sold on the market.
- b) The market price θ is the value of a unit of consumer mass (not value). since: $\theta = \frac{pV_C}{Nk}$

These theorems are only methodological in nature. Only the formulas of transition processes have a calculated sense.

Lemma. Theorems of political economy are prohibited outside of processes. These theorems do not exist outside of processes.

In the eight-dimensional space of categories Ω_8 we will have four laws of supply and four laws of demand for each process!

§ 5.6. Comparison of the categories of biology and political economy

Brief summary of the Third Book “The Political World of Marx”

Biology		Political economy of Marx	
Biology	In biology	Political economy	In political economy
Man has hands.	He is living.	He cannot work. He is called “the armless man”.	He is armless. He has no political economic hands.
The armless girl drives cars with her feet.	She has no hands.	But she HAS hands in political economy.	She is handy one. She drives better than many healthy people.
Man has hearing.	He is not deaf.	He cannot sing. He is called “the deaf man”.	He is deaf. He has no political economic ears.
Man is living.	Money is “dead” paper.	Money is a LIVING THING.	A man is dead. Marx said: “When we kill MONEY, we WILL REVIVE OURSELVES”.
Commodity	Dead	Living	When we kill GREED, the LIVING soul of the COMMODITY, then we will revive ourselves. Under communism, commodities will be DEAD.

Lemma. If a person does not know how to work, then he is armless in the political economy of Karl Marx. He has no political economy hands.

Question. Is this lemma an exact theorem of political economy or a figurative literary analogy?

Answer. Political economy is an exact science. Everything is political economic in political economy. There are no biological categories in political economy. Marx does not study biological nationality. Marx is not a biologist.

Biology	Political economy	
Biological nationality. You are English.	Political economic nationality. Variable (dialectical) nationality.	Nationality by education. You love the history of Russia and Germany. You are fluent in Russian and German. You have three political economic nationalities. You are a rich man according to the theory of communism.
Biological family	A political economic family. Dialectical, variable family.	You are a teacher. You love your students. But you also love your children. You have a large dialectical political economic family. Some students leave, new students come.
The Ivanov family is not a friendly one.	This biological family is not a political economic family.	
But they are not biological brothers.	Karl Marx and Friedrich Engels are political economic brothers.	
Hegel, Marx, Engels, Lenin are dead	But they are living in political economy	The theory of communism of the leaders will save the rotting planet of people.
The proletarian is living in biology	The proletarian is dead in political economy	The working people come to life only during revolutions. They perform miracles. When the revolution is ending, the worker becomes dead again. We are dead in political economic.
Money is dead paper	Money is a predatory creature	Money destroys oceans with garbage. If we kill GREED – MONEY (not people), we will revive ourselves. The black soul of money (greed) will be killed and the money will become dead paper.
The commodity is dead	The commodity is a predatory living creature	If we kill the greedy soul of the commodities, we will revive ourselves. Under communism, commodities will be dead.

§ 5.7. Lenin's theory of the duality of socialism. Socialism is a semi-communist and semi-bourgeois system

Lenin's theory of the duality of socialism. Socialism is a dual semi-communist and semi-bourgeois system.

Lenin. Consequence. All categories of the political economy of socialism are dual, composite.

Political economy of		
capitalism	socialism	communism
living	half-dead	dead
Living money	Money-Signs (Lenin)	Dead money (tickets, receipts)
Living commodity	Product– commodity (Lenin)	Product (dead commodity)
Dead proletarian	A half-dead man	Living, powerful man
Proletarian (Hired	Proletarian –Worker.	Worker. Free man

worker)	Half hired worker – half free man	
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There is a complete table of Lenin's categories of socialism and communism in the books of the authors. Lenin proved this theorem twice: the first time he did it with the help of the Hegelian PRINCIPLE OF DEVELOPMENT, and the second time with the help of Marx's great theory "ON UNEQUAL COMMUNIST LAW".

§ 5.8. How do COMMODITIES AND MONEY COME to LIFE in the political economy?

Money and commodities are LIVING predatory creatures.

Definition. A commodity is a product of labour that can MOVE without social control. How did Lenin prove that PRODUCT-COMMODITIES are a category of the political economy of socialism?

There was a planned economy in the USSR. Under socialism, market trade was considered speculation and was severely punished. The products of labour were not allowed to MOVE, so, it is NOT A COMMODITY. But there was MONEY in the form of PAYMENT FOR LABOUR, which means COMMODITIES.

Therefore, the category Product -Commodity or semi-product-semi-commodity is a category of the political economy of socialism. The money of socialism was also half-dead.

But commodities and money are predatory immortal creatures. Five thousand years ago, these creatures were born, and they are going to live forever. They are immortal creatures, because they can come to life.

Under socialism, the evolution of money was not killed. But the evolution of money is the evolution of GREED. Socialist money has always dreamed of turning into a great predator CAPITAL.

How did the half-dead MONEY and half-dead COMMODITIES of socialism come to life?

MONEY came to life during the evolution of greed. It has decomposed the state apparatus: the police, the ministries. MONEY instilled GREED in the souls of the socialist elite and turned it into the bourgeoisie.

It is impossible to stop speculation with political measures in the long term. The elites of entire republics began to engage in speculation. The elite transferred state products to private hands, and it was sold as personal products of peasants, because it was allowed to sell personal products grown on their small household plots.

Result. The products of socialism CAME to LIFE and began to MOVE outside of social control. They have turned into predatory creatures, into COMMODITY.

Axiom of Marxism. MONEY and COMMODITIES cannot be controlled for a long time. They are immortal predatory creatures. Sooner or later, they will begin to control their supervisors and the police, and the entire state.

Marx's theorem. Living MONEY and living COMMODITIES must be KILLED, as living creatures (not people). We need to get rid of their GREEDY black souls, and then money will become just papers, and commodities will become just products.

Why did the product of labour become a commodity, a living, predatory creature?

How do things come to life in the political economy of capitalism and communism?

Examples of the living things and process of its reviving in the theory of communism:

Example 1. A grandmother taught her granddaughter to play the piano. They lived happily together. But within the time grandmother died. The granddaughter often played the piano, remembering happy days. The girl's father bought a new piano. He thought that the girl would be delighted to have the new piano. But for the girl, the disappearance of the old piano was a disaster, and she refused to play. After all, the old piano was LIVING for her, because her grandmother's soul lived in it. And the new piano was a beautiful, but dead instrument.

Grandmother revived the piano. She put her love and her soul into the piano. Old lady was gone. But her living piano still brings her granddaughter to life.

Example 2. This example is well known to all parents who have more than one kid.

There are two sisters. The elder sister is ten years old, the little one is five. The elder girl is like mother to another one. Just imagine: she gave a drawing book to little sister, and started doing her homework. Then she left room for a while. The little girl took her sister's notebook and began to draw there. The notebook with the homework is ruined. The children quarreled and both cried.

Question. Why did little girl want to draw in her sister's notebook (instead of drawing in her book)?

Answer. It is all about emotions. The elder sister did her tasks with great emotional strain. She revived her notebook with these emotions. Her notebook has become a LIVING NOTEBOOK for the baby. A living notebook attracts the little girl.

Examples of the living things and process of its reviving in the political economy of capitalism and socialism:

SELL OUT the Motherland and BETRAY the Motherland are the same thing in the Russian language. The proletarian of capitalism is a hired worker. He is the owner of private property. The proletarian believes that his hands are his private property. Therefore, the proletarian has not only the proletarian ideology, but also the bourgeois ideology of the hired worker. But with the help of the theory of communism, the workers are able to discard the ideology of the hired worker.

The worker of socialism was also a semi-hired worker and semi-free. He worked for a SALARY. He wanted to make more money. Salary develops GREED. He put GREED into the labour thing. And his labour thing began to COME to LIFE. During perestroika (political movement for reformation), the labour thing CAME to LIFE forever and turned into a predatory creature, into a LIVING COMMODITY, into a living MONEY.

The evolution of money and greed began. And in the course of this terrible evolution, real money merged into SHARKS.

What is the difference between the living labour things of communism and capitalism?

- 1) Love is embedded in the living things of communism.
- 2) Malice and greed are embedded in the living things of capitalism.

But there is an important logical difference.

The things of capitalism are METAPHYSICAL. They are ETERNAL. They are living forever. They rule over people like cruel eternal gods. They cannot die on their own, they should be killed (not people).

The things of communism are DIALECTIC.

The principle of dialectics. There is nothing eternal. EVERYTHING THAT WAS BORN WILL DIE.

Under communism:

- 1) *the living thing dominates (influences) the person;*
- 2) *the person dominates (influences) the thing;*
- 3) *It is impossible to revive a thing forever.*
- 4) *It is necessary to revive a thing from time to time.*

The program of communism (not socialism) from Marx

NATIONALIZATION OF HUMAN BEING in the political economic sense

Under communism, the hands of the worker, the brains of scientists, the voices of singers, the ears (hearing) of musicians, and the feet of dancers will be nationalized. Children will be nationalized (in the political economic sense, not in the biological sense).

How? There is an example of UNCONDITIONAL INCOME of Catalonia. All salaries will be destroyed. If all people are given the same unconditional income, for example 2000 euros, then money and greed will be killed in one day.

Nationalization of children means that children belong to the nation in political economy. And this means that the nation takes children for full economic support. All children are also entitled to an unconditional income. The child will receive everything for free: free school food, free computer, free sports uniform. The child will not be supported by the father and mother, but by the whole NATION (Great Goddess).

Lenin: "Liberate women from domestic slavery".

§ 5.9. The duality between people and commodities is a formal, but not a substantive reason for commodity-money fetishism

The duality theory establishes a kind of equality between people and commodities. This equality is the formal mathematical reason for the existence of the disease of the thing VALUE fetishism. According to the theory of fetishism, statements about commodities can be interpreted as theorems about people and vice versa.

Examples.

Advertising of raisins: "Izyum Vasilievich"

("Izyum" is a raisin in the Russian language; "Vasilyevich" is the second (patronymic) name).

The TV series La Piovra (Octopus, poulpe): "When MONEY sings, the muse is silent".

"Diamonds are girls' best friends".

Discussion. Man had a voice before perestroika. He could sing. He had friends. He had a proud surname, inherited from his heroic grandfather. Now the working man is NOBODY. His voice went to the MONEY. Now money is able to sing, and the worker is sullenly silent. Even his last name was taken away from him. His surname and patronymic name passed to RAISINS. Izyum Vasilyevich subdued all Russians. Here comes Mr. IZYUM VASILYEVICH, bow to our benefactor. He gives us a job. Do not leave us, our benefactor.

Karl Marx's theory of the thing VALUE fetishism. Fetishism No. 1.

Earlier, money was just pieces of paper serving people, but now the money took the GREEDY SOULS of people and came to life. It took away a beautiful wife and children from a working man. Money drove a man out of his house and began to live in this house with his wife and his sons. The money took away man's first and last name. It took away a man's divine smile and beautiful voice.

It hired political economic hairdressers. And living MONEY became like people when people were still people.

This theory, according to which COMMODITIES AND MONEY CAME TO LIFE and turned into PEOPLE, and people turned into lifeless creatures, is called Karl Marx's theory of THING VALUE FETISHISM. This theory is true. It is hard not to believe when IZYUM VASILYEVICH proudly walks across Russia. He performs on television every day. Our great artists sing songs to him.

Another advertisement. Russians like sunflower seeds. "LISA SEMECHKINA" is written on the sunflower seeds product. "SEMECHKA" is a seed in the Russian language.

The world of Russian women is fantastic: Elena the Wise, Blue-eyes-Wonder-woman, Alyonushka, Liza the Golden-haired, Zoya Kosmodemyanskaya. And now Lisa the Golden-haired has become a sunflower seed. We see that the commodity IZYUM has turned into a powerful person, and the beautiful Lisa has turned into a seed.

Question. Is it a figurative expression or reality?

Political economy is an amazing science. In political economy, the dead Marx turns out to be a living person. AND THE ZEUS OF THE REVOLUTION WILL BE BACK WITH THE SECOND COMING. And the Russian people, which seem to be living, today are the dead people. Two dozen people subjugated everyone.

Example. The time when Soviet people were living. Wikipedia.

Evacuation in the Soviet Union was the mass migration of western Soviet citizens and its industries eastward as a result of Operation Barbarossa, the German military invasion of June 1941. The evacuation made it possible to preserve the main economic base and industrial potential of the country and became one of the factors that ensured victory in the war.

In terms of its scale and effectiveness, it has no analogues in world history: during the first 4 months of the war, 8 million people, 2.5 thousand industrial enterprises, 1.5 thousand collective farms (kolkhoz) and state-owned (sovkhoz) farms were withdrawn from the German attacks.

Discussion. It is impossible to understand how the Soviet people could have done such a thing.

Now the Russians are political economic dead.

The bourgeois is a person in biology, but he is DEAD in political economy. Only LIVING MONEY put him in motion. The source of movement and life of the bourgeois is only MONEY. It means that from the point of view of ESSENCE, the bourgeois is a DEAD. He is not a human in the highest and divine sense of the word "human" ("who has laid down his life for their friends, and endured everything to the end" by Tyutchev). The bourgeois is only a SHELL for LIVING MONEY.

The bourgeois looks like a normal living person, but it is an illusion. Mimicry also exists in political economy. Do not believe your eyes. You can look and see something living person in a beautiful suit, but, no, it is the illusion. This is a LIVING omnipotent MONEY, and it is laughing at the pathetic little people.

LIVING MONEY learned to speak the human language, put on a tailcoat. Image makers are the political economic hairdressers, who help the money to put on human form.

The octopus crawled out of the dead shell and ran away. The same thing happens with the bourgeois. In this example, the bourgeois is a shell, and the money is an octopus, when the bourgeois/shell is dead, the money/octopus is looking for a new living shelter.

This beautiful theory is called Karl Marx's THEORY OF ALIENATION. According to this theory, MONEY ALIENATED from a person his beautiful smile, divine voice, name, and came to life themselves. And the man ceased to be a man. Now he is a LABOUR-POWER, a freak with no eyes or ears, no voice, no name.

There is the great mystery of humanity.

Some grand-looking men with gold chains, expensive watches and very expensive ladies walk along the avenue. You can see that people are walking, but you should not believe your eyes. In fact, they are LIVING MONEY, disguised as people. They just have good political economic hair-dressers, image makers.

But Marx will return with the second coming, and will reveal his secret to humanity. Then everyone will exclaim: “Men! These are not people! This is MONEY. WE ARE PEOPLE”. And people will regain their voices, ears, eyes, names. And they will start to sing and dance. People will get their beautiful wives back. They will take back their homes. And people will live as a world Commune. But the theory of fetishism should be stated briefly. All theorists are obliged to simplify the formulations TO AN ATOM. This simple and intelligible knowledge will be fundamental knowledge. It is also important to give such a formulation artistic expressiveness. The law of the unity of the world is Lenin’s favorite law.

The theory of the thing VALUE fetishism. Fetishism No. 1

The theorem of thing value fetishism. Capitalism.

- 1) Dead MONEY took away the FEELINGS of (greedy) people and CAME to LIFE in the political economy.
- 2) People, from whom MONEY took away all feelings, DIED in the political economy.

Comparing the two sciences	Biology	Political Economy
Proletarian	living	Political economic dead
His product (COMMODITY)	dead	LIVING political economic creature
MONEY	dead	LIVING political economic creatures

The phenomenon of thing fetishism exists objectively. The reality is that money came to life, and people died in political economy. It turns out that the theory of fetishism is a true theory, since it reflects reality. What should we do?

Yes, the MONEY came to life, but only because they fed on the GREED of PEOPLE. Half of the world’s gold is in America. And if you mold a golden IDOL out of it, then the idol will come to life. This is living huge IDOL rules the planet, and not the American oligarchs.

The difference between Marx and the bourgeois theorist is as follows. The bourgeois fetishist theorist sees his Golden God and faithfully serves him. And Marx sees living people buried alive inside this golden idol.

And the leader shouts to the people buried alive: “People! You are not dead yet. I can hear your hearts. Drink the LIVING WATER OF COMMUNISM (not socialism) and your power will return to you. And the dark Gods will be defeated”. When LIVING MONEY (not people or the bourgeoisie) dies, and when people move to a non-monetary economy, then PEOPLE WILL COME TO LIFE.

Lenin’s theorem: “THE WAGE IS BOURGEOISE. The labour penny is bourgeois. It must be killed by a TOTAL EQUALITY of the LEADERS and the WORKERS!”

Lenin: THE EVOLUTION OF MONEY needs to BE KILLED. We need to kill evolution!

The proof of the theorem is contained in Lenin’s book “THE STATE AND REVOLUTION”. Lenin proves everything from the theorems of Hegel and Marx. This book also contains criticism of the socialist state. The book is directed against the socialist state. The book is the bible of communism, not socialism.

The name “THE STATE AND REVOLUTION” means that a communist revolution, will also ABOLISH the socialist state. And it will establish the Commune as a GLOBAL COMMUNITY.

Author’s proof of Lenin’s theorem. The evolution of money begins with the LABOUR PENNY, with the wages of a working man. But the evolution of MONEY is the evolution of GREED.

The labour penny is small, but it has the terrible power of her mother, the MONSTER CAPITAL. If the LABOUR PENNY is living, evolution will certainly give rise to SHARKS, to oligarchs.

The USSR did not kill the LABOUR PENNY, and therefore it died. The labour penny is a cage of CAPITAL. The evolution of money has started in the USSR, and then the greed began to evolve. The half-dead socialist MONEY came to life and crushed the Russians. The evolution of money and greed cannot be stopped. It goes every day and every hour. The one and only we are able to do is “TO KILL A LABOUR PENNY”. And then the money biosphere and the CAPITAL will disappear. We need to kill a penny, and then the CAPITAL (not people) will die.

Lenin’s great PARTMAXIMUM (a limit on the salary of a member of the Communist Party in the Soviet Union, a maximum wage). A real EQUALIZATION is considered to be an equalization of Lenin himself and other leaders. The leaders of the future communism must live like workers. And the common people do not need to be equalized, because the common people have always been equalized by poverty for all thousands of years of human history.

Why should the WAGE be KILLED by total equalization? We can explain it with the help of the theory of fetishism.

A worker makes a children’s slide. The slide is the product of labour. But if the worker makes a slide for MONEY and wants to get more money, and make the slide faster, then the worker puts his LIVING GREEDY SOUL into the slide, and the slide comes to life. So now this children’s slide is not a product anymore, it is the COMMODITY.

Definition. COMMODITY is a LIVING PRODUCT. The product is a living and scary creature. The commodity is able to move outside public control. During perestroika, half-dead socialist MONEY and COMMODITIES came to life and crushed the Russians.

Results. The worker put his GREEDY HEART into the children’s slide. The worker tried to earn as much as possible, that is why he made some mistakes. He could redesign the project and make the slide safe, but he did not it, because he was a slave of the Golden Idol. The slide came to life and became a predatory commodity, which crushed a child to death. Nowadays predatory commodities, that can MOVE, destroy entire oceans.

The thing value fetishism and the theory of pure communism, not socialism

The thing value fetishism does not allow people to understand the beautiful and logical theory of communism by Marx.

The communism program of Marx: “Destruction of money”.

Those people who are sick with thing fetishism under the category of “money” understand THINGS, the material shell of money. Well, how can we live without money? If we come to the store and take what we want, it will be the anarchy.

Money is not a thing. Money is a RELATION OF PEOPLE, money is a function. And the destruction of money is the destruction of the functions of money. Therefore, none of the fetishists suspects that the communist, non-socialist revolution has already been moving around the planet. There is POLITICAL ECONOMIC DESTRUCTION OF MONEY around the planet.

Theorem. The introduction of UNCONDITIONAL INCOME in Catalonia and other countries is the fulfillment of the communist program of Karl Marx.

What is the main thing in this program? The main thing is “REAL EQUALITY OF PEOPLE”. Everyone is paid EQUALLY 500 euros. Why is it important? If one is given 501 euros, and the other 499 euros, then there seems to be no difference. But there is also a very significant difference. If there is an inequality of even one euro, we will need an official, who will determine to whom to pay 499 euros, to whom 501 euros.

Under equal conditions an official is not needed. And with total equality, when all people will have the same wages, the STATE BECOMES UNNECESSARY. And the STATE can be ABOLISHED. Marx said: “The state is a PARASITE”.

So, with unconditional income in Catalonia, money has already lost some of its functions as a MEASURE OF LABOUR and MEASURE OF WEALTH. Even if they lost only partially, this is the beginning of the destruction of money, predicted by Marx.

EQUALITY begets BROTHERHOOD (Sparta).

Semi-equality in the USSR also played a positive role. Semi-equality in the USSR gave rise to semi-brotherhood.

The TOTAL EQUALITY OF communism will give rise to the TOTAL BROTHERHOOD of all the peoples of the planet. And the great unification of all mankind will definitely take place.

Equality in life, equality in death, equality after death!!

Theorem. According to Marx, the destruction of money is the destruction of the political economic functions of money, such as a measure of labour, a measure of wealth, a measure of exploitation, etc.

Money will become Marx’s dead papers after losing its political economic functions. To destroy money means to KILL MONEY as living political economic predators, to kill their dark soul of MONEY. And the living things will die, they will become dead papers.

We need to kill LIVING MONEY and the greed (not people). And first of all, we need to kill our greed and our money. Kill the MONSTER MONEY in YOURSELF. It is Lenin’s partmaximum.

But with total equalization, it will be necessary to introduce a VARIABLE (DIALECTICAL) DIVISION OF LABOUR (the Program of Communism from Hegel). All people will get higher education. All 100% of the population work both with common labour and sciences.

Marx, Engels, Lenin. EQUALITY IS THE DESTRUCTION OF CLASSES.

The intelligentsia and the working classes will be destroyed as classes by merging into the global COMMUNE. Communism is a system of WORKERS-SCIENTISTS or SCIENTISTS-WORKERS.

Money must be killed as living beings.

Money is living organisms in Marx’s political economy. Money knows how to give birth: bank interest is newborn child, and banks are money maternity hospitals. We need to destroy the maternity hospitals of CAPITAL, we need to destroy all the banks. Then money will stop giving birth.

It is necessary to break the legs of money so that money cannot go from account to account. Under communism, not socialism, the mother cannot transfer money to her son.

Thus, the money will get very sick. Poor and unhappy with broken legs, they will wither and, eventually, die. Their corpses are dead pieces of paper. Marx called the corpses of money – labour vouchers (tickets, receipts, signs). Marx’s labour vouchers are not money in the political economic sense of the word. They are no different from toilet paper.

§ 5.10. Contradictions of the golden fundamental constant of value

The formula of the universal value constant is as follows:

$$p = \frac{Z}{V_C} = \frac{\theta_1 + \theta_2 + \theta_3 + \theta_4 + \dots + \theta_{N-2} + \theta_{N-1} + \theta_N}{V_1 + V_2 + V_3 + V_4 + \dots + V_{M-2} + V_{M-1} + V_M}$$

Discussion. In the denominator, we add up ten hours of work of a strong worker and ten hours of a weak or lazy worker in one day and get twenty, because we consider them equal as people. Once again, this is the most important thing:

$$10 \text{ hours} + 10 \text{ hours} = 20 \text{ hours,}$$

this is the great communist principle of equality. They are equal as people.

It is psychologically difficult to add 10 hours of the weak worker and 10 hours of the strong one. It is difficult to come to equality: $10+10=20$. It seems that 10 hours of the weak worker +10 hours of the strong worker $\cong 15$ on average 15 hours.

THE COMMUNIST EQUALITY PRINCIPLE

Theorem. The communist principle of equality is expressed in the formula:

$$V_C = V_1 + V_2 + V_3 + V_4 + \dots + V_{M-2} + V_{M-1} + V_M.$$

It is surprising that ten hours of a strong worker are taken into account in the same way as ten hours of a weak worker!

THE CAPITALIST PRINCIPLE OF INEQUALITY IS EXPRESSED IN THE FORMULA:

$$Z = \theta_1 + \theta_2 + \theta_3 + \theta_4 + \dots + \theta_{N-2} + \theta_{N-1} + \theta_N$$

Justification. A strong worker will produce more commodities and therefore, his contribution to the fundamental constant of value will be greater. So the strong worker will get more values in the market than the weak worker. There is wages in the market version.

The Marx-Lenin theorem. Wage is bourgeois. In the USSR, a strong worker, in agreement with a foreman, selected profitable jobs for himself, and the weak workers could take only heavy, poorly paid, common labour. Wages cause competition among workers. And strong workers do not teach weak workers, but on the contrary exploit them.

The WAGE is the formula “THE STRONG ONE GETS MORE”.

The strong man is fine even in prison. During the history humankind has been guided by the formula: “THE STRONG GETS EVERYTHING”. Therefore, Marx and Lenin are right: WAGE is not a fair communist principle. So wages will be destroyed by the TOTAL EQUALIZATION under communism.

THE COMMUNIST PRINCIPLE OF EQUALITY

Theorem. Under communism wages will be abolished. It will be replaced by Russian communist leaderism: “Strong leader of the weak. AND THE STRONG MAN GIVES MORE!”

The principles of COMMUNISM. Two FORMULAS of communism

Lenin: “I AM THE SAME AS EVERYONE”.

The famous PARTMAXIMUM of Lenin. Wikipedia

Lenin forbade himself and the leaders of communism, communist generals, communist scientists TO HAVE and ACCUMULATE MONEY. Lenin received the same salary as workers did. According to Lenin, the path to communism lies through a new SPARTA!

The LEADER of COMMUNISM should be a leader FOR FREE. The leaders of communism have NOTHING.

This digression into the theory of communism was necessary in order for the reader to understand that wage is BOURGEOIS from the point of view of pure communism. This means that the formula:

$$Z = \theta_1 + \theta_2 + \theta_3 + \theta_4 + \cdots + \theta_{N-2} + \theta_{N-1} + \theta_N$$

expresses the capitalist principle of inequality.

Theorem. The GOLDEN CONSTANT OF VALUE is the resolution of the contradiction between the capitalist principle of INEQUALITY (wage) and the communist principle of EQUALITY. We have:

$$p = \frac{\text{the sum of all prices of commodities produced per year in gold}}{\text{the sum of all labour hours of all workers}} = \frac{\text{INEQUALITY}}{\text{EQUALITY}}$$

The inequality of the strong and the weak workers is expressed in the numerator, since a strong worker will produce more commodities than the weak one in the same time. And he lives richer than a weak worker, and does not help him. A strong worker exploits the weak one. Having agreed with the foreman, he chooses profitable types of work for himself.

Marx on Aristotle

Marx noted that Aristotle did not discover the LAW OF VALUE for the following reason. He could not add up one labour hour of a free peasant and one labour hour of a slave and get the number two. For Aristotle, the sum of 1 hour of a peasant + 1 hour of a slave did not make sense. Of course, 1 hour of a peasant + 1 hour of a slave = 2 from the point of view of mathematics, but 2 of what? We can say: 2 labour hours of people. But the slave was not a man for Aristotle. He was a talking tool. Therefore, such an addition for Aristotle was a psychologically impossible operation.

The logical law of inverting pair was discovered by Marx.

An amazing example of a inverting pair. Bourgeois theorists stand upside down, and their conclusion is as follows:

$$p = \frac{\text{the sum of all prices of commodities produced per year in gold}}{\text{the sum of all labour hours of all workers}} = \frac{\text{EQUALITY}}{\text{INEQUALITY}}$$

Theorem. Bourgeois theorists consider that EQUALITY is INEQUALITY, and INEQUALITY is EQUALITY!

What is wrong with that? There is the answer. There are one working day of an American and one working day of a Mexican. The working day is ten o'clock for both. We added the times according to the principle of equality: 10 hours + 10 hours = 20 hours. But the bourgeois theorist will be indignant, will scold us and shout: "How could you equate 10 hours of a great American with ten hours of a Mexican. In mathematics, 10 + 10 equals 20, but in real life who is Mexican and who is a great American. A Mexican is equal to half an American. And therefore 10 + 10 = 15 hours".

Lemma. All bourgeois theorists count according to the following formula:

$$p = \frac{\text{the sum of all prices of commodities produced per year in gold}}{\text{the sum of labour hours of workers, taking into account inequality}} = \frac{\text{INEQUALITY}}{15 (\text{inequality})}$$

This means that all bourgeois theorists apply INEQUALITY twice.

Consequence. All hundreds of works by all the theorists of ECONOMIC PHYSICS are WRONG!

Why did not the left-wing politics discover the fundamental constant of value?

All the left-wing politics are like Aristotle – they are supporters of the socialist semi-equality, semi-inequality. Cleaners, weavers, cooks, unskilled workers were actually SOCIAL SLAVES of socialism. They are socialist helots (social slaves of the Spartans). With the help of admission examination, the children of socialist slaves were sent to become socialist slaves. Under socialism, it was possible to give everyone a higher education. There were an abundance of textbooks, as well as teachers.

But SOCIALISM WILL NEVER GIVE everyone a HIGHER EDUCATION. Why? Socialist chiefs need servants to clean toilets, they need personal drivers, hairdressers and cooks.

Questions about the IDENTITY of people (atoms).

This question was solved long ago by Marx. If we average over groups of five people, we will get similar results. In quantum physics, there are statistics in which particles are considered identical or different. We use both statistics. They both reflect different sides of reality. The same phenomenon can take place in the political economy of both capitalism and communism.

ENGELS' THEOREM in our presentation. Engels: "DIALECTICS OF NATURE".

PEOPLE are statistical ATOMS of history. According to Engels, the laws of history, political economy, and philosophy are statistical too.

Thus, the fact that POLITICAL ECONOMY is the same THERMODYNAMICS was actually discovered by Engels.

When was the theory of relativity fully formalized?

The theory of relativity was born as a science only when it was proved that the speed of light is a fundamental constant and does not depend on the speed of movement of the light source.

When will the political economy of capitalism be fully formalized?

This will happen after the fundamental value constant is calculated, because then formulas based on it will appear.

Objection No. 1. The law of value is the law of an ideal POLITICAL ECONOMIC GAS. But a society consisting only of small-scale producers has never existed either in ancient times or now.

Answer. The ideal gas is examined first. Then the real gases are examined. The theory of ideal gases is the foundation in the theory of real gases. The law of value is also true for the modern market, but in an indirect form. It can be proved only by calculations.

§ 5.11. Indirect methods of calculating the gold FUNDAMENTAL CONSTANT of value

The fundamental value constant is equal to:

$$p = \frac{\text{the sum of all prices of commodities (services) produced for the year in gold prices}}{\text{the sum of the labour hours of all not parasitic workers}}$$

There is a conditional calculation of the gold fundamental constant of value of the working people for AvtoVAZ in 2007.

The number of employees is 120,000.

Production of car: 700,000 units.

The price of gold is 25.72 dollars per gram.

The price of an average car is 10,000 dollars.

The number of working days per year is 270.

The number of labour hours in one day is 8.

The percentage of parasites is 30 percent.

The percentage of other people's components is 35 percent.

There is the gold fundamental constant of value of the worker at AvtoVAZ:

$$p = \frac{700000 * 10000 * 0.65}{25,72 * (120000 * 270 * 8 * 0,7)} = 0.975 \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}}$$

There is the gold fundamental constant of value of the worker at Toyota in 2007.

Data for Toyota company for 2007:

The number of employees is 264,000.

Production of cars: 8,000,000 units.

The price of gold is 25.72 dollars per gram.

The price of an average car is 10,000 dollars.

The number of working days per year is 270.

The number of labour hours in one day is 8.

The percentage of parasites is 30 percent.

The percentage of other people's components is 35 percent.

The gold fundamental constant of value of the worker at Toyota is:

$$\left| \begin{aligned} p &= \frac{8000000 * 10000 * 0.65}{25.72 * (264000 * 270 * 8 * 0.7)} = \\ &= 5.065 \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}} \end{aligned} \right.$$

There is the gold fundamental constant of value of a worker in a gold mining company in Russia for 2007.

The number of employees is 550.

The planned gold production is 1 ton per year.

The percentage of parasites is 30 percent.

So we get:

$$p = \frac{1000 * 1000}{550 * 270 * 8 * 0.7} = 1.203 \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}}$$

How to calculate the percentage of parasites in Russia? It is difficult, but possible. We remind you that the labour on political economic management is parasitic and is not included in the fundamental constant of value.

Data on net material product per labour hour for 2006.

In terms of net material products per labour hour, the leader in labour productivity is Norway (37,99 dollars), the United States (35,63 dollars) and France (35,08 dollars).

We will assume that these dates were calculated correctly by the bourgeois, and all parasites are excluded, and all cleaners are included in these dates.

The price of gold in 2006 is equal to 19.93 dollars per gram.

Let the value added be 90% of the net material products.

There is the gold fundamental constant of value of labour hour of the worker in America in 2006:

$$p = \frac{35.63 * 0.9}{19.93} = 1.61 \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}}$$

The capitalist methodology is possibly wrong. It is quite possible that they consider parasites to be workers. If we assume that the percentage of parasites is 30%, then the fundamental constant will increase and become like this:

$$\left| \begin{aligned} p &= \frac{1.61}{0.7} \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}} = \\ &= 2.3 \frac{\text{gram of gold}}{\text{labour hour of the not parasitic worker}} \end{aligned} \right.$$

Philosophy of the law of value	
Bourgeois	The law of value
Time is MONEY!	Money is TIME!
Karl Marx: “Capitalism is the UPSIDE DOWN WORLD”.	
EVERYTHING is upside down in this world! Women are men, and men are women (homosexuals)	A man is a strong and loving man, and a woman is a charming and beloved woman.
Fetishes. Advertisement in the store: “Money is freedom in gold”	Yes, it is true. Money is free under capitalism. But man is enslaved! Let’s enslave the money and become free!
Advertisement: “We love you, mortgage”	We love our women, and we hate money.
MARX: “MONEY TURNS EVERYTHING INTO ITS OPPOSITE”	
Marx’s theory of alienation. MONEY AND COMMANDS turn brothers into STRANGERS and enemies. It is necessary to kill MONEY (not people) and COMMAND. And the alienation will disappear. All the people of the planet will become brothers.	
Theorem. The law of inverting pair is a general law of logic. It is presented in a logical form in the authors’ book: “The Mathematized Dialectics of Hegel”. Thus, the mass transition of men to women in the West is a special case of the general law of logic. The law was discovered by Marx.	

Chapter VI. THE THERMODYNAMIC MODEL of the money market

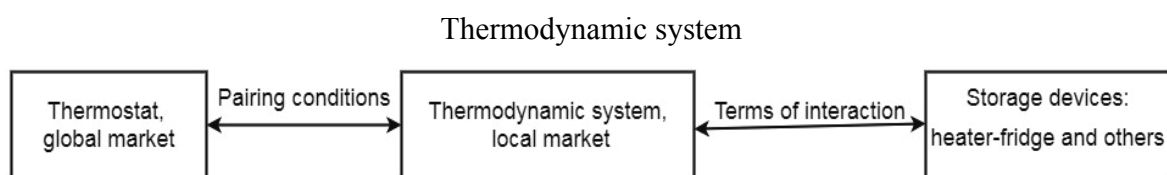
§ 6.1. Fundamentals of thermodynamics via insulators

The concept of “insulator” makes economic substance.

Types of insulation in thermodynamics				
Name of insulation	It does not from thermostat	It transfers from thermostat	Free	It transfers from heater (refrigerator)
Isobaric process				
Thermal	θ	p	V	Q_{heater}
Isothermal process				
Barometric	p	θ	V	Q_{heater}
Adiabatic insulation. Adiabatic process				
It does not transfer from thermostat	It does not transfer from thermostat		Free	It does not transfer from refrigerator or heater
θ	p		V	Q_{heater}
Isochoric process				
It does not transfer from thermostat	It does not transfer from thermostat		It does not transfer from thermostat	It transfers from refrigerator or heater
θ	p		V	Q_{heater}

Interpretation of the small state market insulators in economics
--

Isobaric political economic process			
Thermal or price insulation. Money or commodities insulation			
Prohibition on ex- port/import of commodi- ties across the border	Free movement of labour	Total quantity of labour is not fixed	Accidental money issue from the heater to the local market is allowed
The difference in com- modities prices in the local and global markets	Fundamental constants of a man are equal both in local and world markets (thermostat)		
Isothermal political economic process			
Barometric or value insulation			
Free money transfer	Prohibition on free movement of labour	Total quantity of labour is not con- strained	Accidental money issue (or withdrawal) to the local market is allowed
Commodities prices in local and global markets are equal	Prices of labour hour are not equal in local and world mar- kets		
Adiabatic political economic process			
Adiabatic (political) insulation of a small state			
Prohibition on free transfer of commodi- ties and money	Prohibition on free movement of labour	Random change of labour total quanti- ty is possible	Prohibition on acci- dental money with- drawal (or issue) from the local market
Choral political economic process			
Choral or labour insulation			
Prohibition on free transfer of commodi- ties and money	Prohibition on free movement of labour	Total quantity of labour is highly fixed	Accidental money issue (or withdrawal) to the local market is allowed



Definition. A thermodynamic system: gas + vessel with pairing conditions with a thermostat, and terms of interaction with a power storage device. In economics, a thermodynamic system is a local market or a market of one particular small state. The thermostat is the global market. Therefore, we study the development of an individual market and its interaction with the global market under various external influences made by power storage devices.

Definition. The pairing conditions of the thermodynamic system and the thermostat are set by different types of insulators.

Definition. The power storage device of a specific parameter is a thermodynamic mechanism capable of forcibly changing the value of this parameter without forcibly changing the other system parameters.

The power storage device of a specific parameter is an external system both in relation to individual and global markets. The impact of a particular power storage device should be thermodynamic in nature. This means that this impact should be exerted in small quantities so that thermodynamic equilibrium is reached after each of them. The power storage devices are real, i.e. physically realizable, and exist for any parameter and any variable.

§ 6. 2. Hypothesis. Marx’s “COMMODITY” category is a complicated molecule, composed of two first-order “COMMODITY” categories

Lemma. It follows from the law of the unity of the world that there are several axiomatic theories in political economics, i.e. categories can be defined differently.

Refutation. Any category runs along the path of a triad, which is only one. Therefore, the category is single-valued.

Contradiction of refutation. The triad depends on the frame of reference.

There is another way of category formation. A new scheme is of evolutionary nature and irrelevant to the main graph.

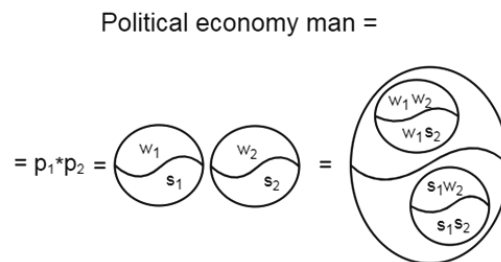
Let’s consider a small-scale producer:



Let’s assume that political economy as a science and its categories have not been established yet, as well as the “political economic man” category has not been determined.

That is why a small-scale producer is by no means a man in political economics. The “man” category must be defined.

Theory. Marx’s political economic man consists of two small-scale producers united in a dialectical pair.



Theory. Marx’s commodity-molecule consists of TWO COMMODITIES.

Why do we refer to people and not commodities? In fact, they are equivalent. The graph of a complicated molecule is as follows:

First-order categories			
w_1	w_2	s_1	s_2
the first worker	the second worker	the first seller	The second seller
Multiplying the pairs, we get the second-order categories			
w_1w_2	w_1s_2	s_1w_2	s_1s_2
Doubled worker	Worker-seller	Seller-worker	Doubled seller
Marx's greatest category "RELATION"			
w_1/w_2	w_1/s_2	s_1/w_2	s_1/s_2
First-order categories are embryonic categories, not political economic			
Slash means division, comparison, RELATION. As a result of comparison, there are the SECOND-ORDER categories, which are political economic.			
Classes. Second-order categories			
Cleavage of society of small-scale producers into classes			
w_1/w_2	w_1/s_2	s_1/w_2	s_1/s_2
Doubled worker	Consumer	Seller	Doubled seller
proletarians		capitalists	

Cleavage of society into classes

Lemma. In a small-scale society, there are embryos of the bourgeois and proletarian classes. Division of labour arises; sellers and embryos of the proletariat are born. A complex dialectical pair is divided in half: the bottom half turns into net sellers, which are the embryos of the bourgeoisie; another half becomes net producers, which are the embryos of the proletarians.

Definition of the embryos of the proletarians. The symbols are w_1w_2 . A proletarian is a doubled worker, an abstract worker, a tough worker.

From there, the proletarian in the Marx's Capital means two people and not just one man.

Definition of the embryos of the bourgeoisie. The symbols are s_1s_2 . The bourgeois is a doubled seller, an abstract seller, a tough seller, a seller of sellers.

The problem is that there is a contradiction. Our market is an ideal monoatomic gas with two degrees of freedom. And a diatomic gas molecule consists of two atoms with two degrees of freedom. In total, there are three degrees of freedom. One degree of freedom is needed for connection. But it is necessary to turn attention to calculations of such a gas; whether they are meaningful in political economy or not?

Reason for refutation. We have agreed not to consider evolutionary theories. It is impossible to match evolutionary categories with available models. The same word in both schemes may have two different meanings. That is why a contradiction is inevitable.

We only take into consideration available models, in other words, models in which all categories have already been born. This means that there are no embryonic categories.

Therefore, we believe that the ‘worker’ category has already been born. And he is abstract, not a real one.

If the hypothesis of a diatomic molecule is true, then:

the ‘commodity’ category is to be understood as two connected commodities. The ‘worker’ category is to be understood as two workers or a complex worker, which consists of two united simple workers.

Results. Until a minimal political economy is created, we will wander about in the dark.

§ 6.3. Political economy is the human science dealing with the feelings of millions of people (classes)

The market molecule consists of two people connected in a complicated way. Why does Marx connect them? “MONEY IS THE RELATION OF PEOPLE”. Marx studies the relation of two small-scale producers since their greedy relations generate money.

Political economy is the human science.

Lenin: “We must express what the people feel”.

Lenin’s theorem: “Political economy is the psychology of classes”.

In this regard, political economy is the psychology of a great many people, while classical psychology is the science dealing with the feelings of one person.

In current times there is a world crisis. Millions of people are going crazy. But there are doctors. Hegel, Marx, Engels, Lenin are great political economic psychologists and even psychiatrists. They cure millions and even billions of people of anger, greed and squalor.

Conclusion. In place to properly draw up a mathematical model, you need to calculate how many feelings are in the model and materialize each of them.

Question. Two small-scale producers are faced with each other in the market. How many feelings do we have?

Answer: Four feelings. Let’s demonstrate this using the example of countertrade transaction:

First-order categories	Small-scale producers		
	the first	Bid	the second
First-order mass of commodities	$M1 = 10 \text{ kg of sausages}$		$M2=15 \text{ kg of sour cream}$
First-order labour value	$V1_c = 25 \text{ labour hours}$		$V2_c = 20 \text{ labour hours}$

Feelings of the small-scale producers are born in the market		
the first	Gluttony 1	He loves sour cream very much
	Greed 1	He wants to buy more sour cream at lower price
the second	Gluttony 2	He loves sausages very much

	Greed 2	He wants to buy more sausages at lower price
--	---------	--

§ 6. 4. Four feelings create a four-parametric model. These feelings materialize in Marx's Capital

Karl Marx in the section "MONEY" describes the Hegelian triadic evolution of the VALUE category: simple, expanded, universal. In this paragraph, Marx describes the struggle between two greeds. But there is no conflict between two gluttons.

Hegel's theorem. Any category of any science faces a triadic logical evolution. The birth of a category is impossible in isolation of the triadic logical evolution.

The evolutionary triadic scheme is to build for all categories: gene, set, form, body, essence, phenomenon, temperature, pressure, function, revolution.

Therefore, a logical evolution for the "use value" category must be created. "Use value" category demonstrates the struggle of two gluttons.

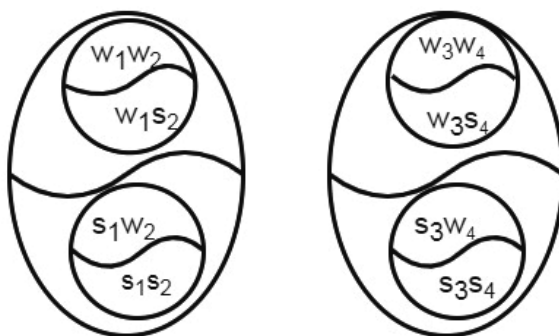
Conclusions. When creating a mathematical model according to Marx's Capital, it is necessary to make models of feelings. If we mention only commodities and money, then we will morph into a bourgeois.

Example. In 30 years after perestroika, not a single theoretician with left-wing views has understood why the working classes did not begin a fight for socialism? And why? It is because they have become half bourgeois. They constantly write about salaries, benefits, retiring pensions, and free education and never – about the feelings of the workers. The leftists are infinitely distant from the people. They are blinded to what people think, what they want, what they would fight for. And in order to find out the feelings of the workers, one has to work in the mines for six months, in which event everyone would have known 30 years ago. But nobody went.

The objective aim. Materializing a statistical physics model. Atoms are small-scale producers. But there are the following questions:

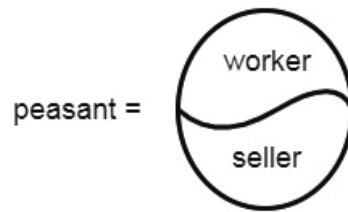
1. What parameters of a small-scale producer are observable?
2. How do molecules collide with each other? What happens then?
3. What variables are phase variables?
4. How to make a vessel model in which molecules of small-scale producers are running?
5. The small-scale producer molecule hit the vessel walls and bounced off. What is the meaning of this?

Is a statistical physics model possible with these complicated molecules?



6.5. Lenin's theorem on THE DUALITY of peasants-small-scale producers

Lenin's theorem. A peasant-small-scale producer is a dual political economic organism. The peasant-small-scale producer is a dialectical pair:



Consequence. On the one hand, he is a WORKER and has the working-class ideology. On the other hand, he is a petit bourgeois and has a bourgeois ideology. He is a heavy speculator and profits from famine in cities since he can strike it rich.

The ambiguous behavior of peasants-small-scale producers during the Russian Civil War

The Bolsheviks gave peasants-small-scale producers land that they never had. All the peasants rushed to the Bolsheviks, shouting: “Bolsheviks are such good guys!”

But there is famine in the cities. People are dying. The Bolsheviks forced the food rationing into application and began to punish for speculation and greed for gain from the mass death of townspeople.

Then the peasants, shouting: “Bolsheviks are such bad guys”, rushed to the Whites. But Whites are upstairs. White generals shot the peasants who took the masters’ lands in possession.

Then the peasants, shouting: “Whites are such bad guys!”, rushed right back to the Bolsheviks. So they ran back and forth over and over again!

Lenin explained to the communist workers the ambiguous behavior of the peasants with his theorem. And why? Lenin inculcated a SCIENTIFIC WORLDVIEW in people. He fulfilled Marx’s precepts: “To talk to workers only in a SCIENTIFIC LANGUAGE”. Lenin tried to teach the socialist leaders the theorems of dialectics. But the socialist leaders were reluctant to study. Dog-like, they bit Lenin from all sides.

§ 6.6. Axiomatic construction of the set of rational numbers coincides with the method of Marx

The set of rational numbers Q is created from a set of natural numbers N in the following method:

- 1) Pairs of natural numbers $(m; n)$ are considered from the direct product $N \times N$.
 - 2) An equivalence RELATION on the set of these pairs is introduced.
 - 3) The factor – set theorem is applied.
- The obtained factor – set is the set of fractions Q .

Marx’s method. Marx does the very same:

- 1) He considers many pairs of commodities.
- 2) He introduces an equivalence RELATION on the pairs set.
- 3) And then factors it.

But political economy is not a commutative system. Otherwise, we would have two feelings: greed and gluttony, but in actual practice there are four feelings – two greed and two gluttony. We present Marx’s theorems:



Marx’s theorem: “MONEY is a RELATION OF PEOPLE”.

Marx’s theorem “Money is an equivalence RELATION on the set of PEOPLE pairs”. We observe that the equivalences in Marx’s Capital are more complicated than in the theory of rational numbers. Analogies must be sought in the theory of non-commutative groups.

The creation of the “use value” category

There are two observable parameters in the barter market			
First-order categories	Small-scale producers		
	1 st	Bid	the second
First-order mass of commodities	$M1 = 10\text{ kg of lunch meat}$		$M2=15\text{ kg of sour cream (smetana)}$
First-order labour value	$V1_c = 25\text{ labour hours}$		$V2_c = 20\text{ labour hours}$

The first small-scale producer produces sausages. Sausages have no use value for him since it is commercially made. Nevertheless, his sausages have a use value for the second small-scale producer. By analogy, smetana (sour cream) produced by the second small-scale producer has a use value for the first small-scale producer.

Small-scale producers		
the first	First-order use values. They are embryonic categories	the second
of the first small scale producer		$M2=15\text{ kg of smetana (sour cream)}$
	Use value 1	
$M1=10\text{ kg of sausages}$		of the second small scale producer
	Use value 2	

The Marx’s greatest “RELATION” category

A graph edge is a relation between two points. The use value category is the graph edge, so we got another visualization of Marx’s “RELATION” category.

Let’s compare two embryonic use values. On the set of first-order embryonic use values, we introduce an EQUIVALENCE RELATION. Let’s factorize. The scientific use value category was created. Marx’s scientific use value is the second-order value. We get:

Marx’s scientific use value =
= embryonic use value / embryonic use value

The first-order use value is also a relation between small-scale producers. Then Marx’s use value is the RELATION between RELATIONS. Marx’s scheme coincides with Lenin’s theorem on the LAW.

Lenin’s theorem on the LAW. Version 1.

- 1. The law is a RELATION. First-order theorems.
- 2. The law is a RELATION between RELATIONS. Second-order theorems.

Lenin’s theorem on the LAW. Version 2.

- 1. The law is the ESSENCE. First-order theorems.

2. The law is the ESSENCE of ESSENCES. Second-order theorems

Lenin defines all classes and states through the RELATION (of many people) category. Lenin presents all the theorems in PAIRS, two by two. He acts like a mathematician, like a mathematical machine.

§ 6.7. Small-scale production operates according to the following scheme:

Consumed-Produced-Sold-Bought: $C - P - S - B$.

We analyze Marx's scheme: «Commodity – Money – Commodity». We have:

$$C_1 \rightarrow M_1 \rightarrow C_2 \rightarrow M_2 \rightarrow C_3 \rightarrow M_3 \rightarrow \dots \rightarrow.$$

Transition theory in a simple dialectical pair. Marx describes endless transitions in a simple dialectical pair: Commodity – Money. These transitions are similar to transitions in a Wave – Particle pair. Marx's scheme needs to be expanded to fully formalize political economy. We get:

$$\left| \begin{array}{l} \text{Produced – Sold – Bought – Consumed} \\ P \rightarrow S \rightarrow B \rightarrow C \\ P_1 \rightarrow S_1 \rightarrow B_1 \rightarrow C_1 \rightarrow P_2 \rightarrow S_2 \rightarrow B_2 \rightarrow C_2 \rightarrow \dots \rightarrow. \end{array} \right.$$

The transition theory in a double, complex dialectical pair. The new formula describes transitions not in a simple, but in a complex pair, where each transition is a logical theorem that must be explained.

What is the dimension of the $\overrightarrow{\text{small – scale producer}}$ vector? We identify the small-scale producer category with the assembly $\overrightarrow{\text{LABOUR}} \cup \overrightarrow{\text{COMMODITY}}$ vectors. The product of these vectors forms the main political-economy graph with 16 branches.

Results. A small-scale producer is a 16 vector dimension.

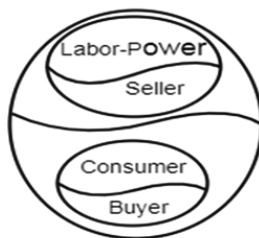
§ 6.8. What dimension does the vector $\overrightarrow{\text{PROLETARIAN}}$ have in a capitalist, non-small-scale society?

Incorrect assumptions: the proletarian

is hired for one day;
sells his Labour Power;
gets money in the morning;
buys food;
consumes food;
produces commodities for the capitalist.

These assumptions are wrong, but so far we are not interested in it.

We accept without justification that the formula of the proletarian is as follows:



We get that the proletarian and the bourgeois are four-dimensional vectors. The proletarian functions according to the scheme:

$$\text{Sold} - \text{Produced} - \text{Bought} - \text{Consumed}$$

Result 1. It makes no sense to determine the dimensions of vectors (and people) until it is indicated to which space we are working. On the graph $\overrightarrow{\text{COMMODITY}}$ the vectors have eight coordinates, and on the main political economic graph $\overrightarrow{\text{LABOUR}} \cup \overrightarrow{\text{COMMODITY}}$ the vectors have sixteen coordinates.

Result 2. There can be several such chains in the Marx's CAPITAL.

$$P_1 \rightarrow S_1 \rightarrow B_1 \rightarrow C_1 \rightarrow P_2 \rightarrow S_2 \rightarrow B_2 \rightarrow C_2 \rightarrow \dots \rightarrow.$$

Comparison of author chains and Karl Marx chains.

Chain of authors:

$$P_1 \rightarrow S_1 \rightarrow B_1 \rightarrow C_1 \rightarrow P_2 \rightarrow S_2 \rightarrow B_2 \rightarrow C_2 \rightarrow \dots \rightarrow.$$

It is formed by four categories: P, S, B, C .

The Marx Chain money - commodity:

$$\text{money}_1 \rightarrow \text{commodity}_1 \rightarrow \text{money}_2 \rightarrow \text{commodity}_2 \rightarrow \dots \rightarrow.$$

It is formed by only two categories. Why?

Marx studies only values. Value categories are entities. But now we need to add things categories to Marx's CAPITAL. And then we will have not three volumes of CAPITAL, but six volumes of Marx's CAPITAL.

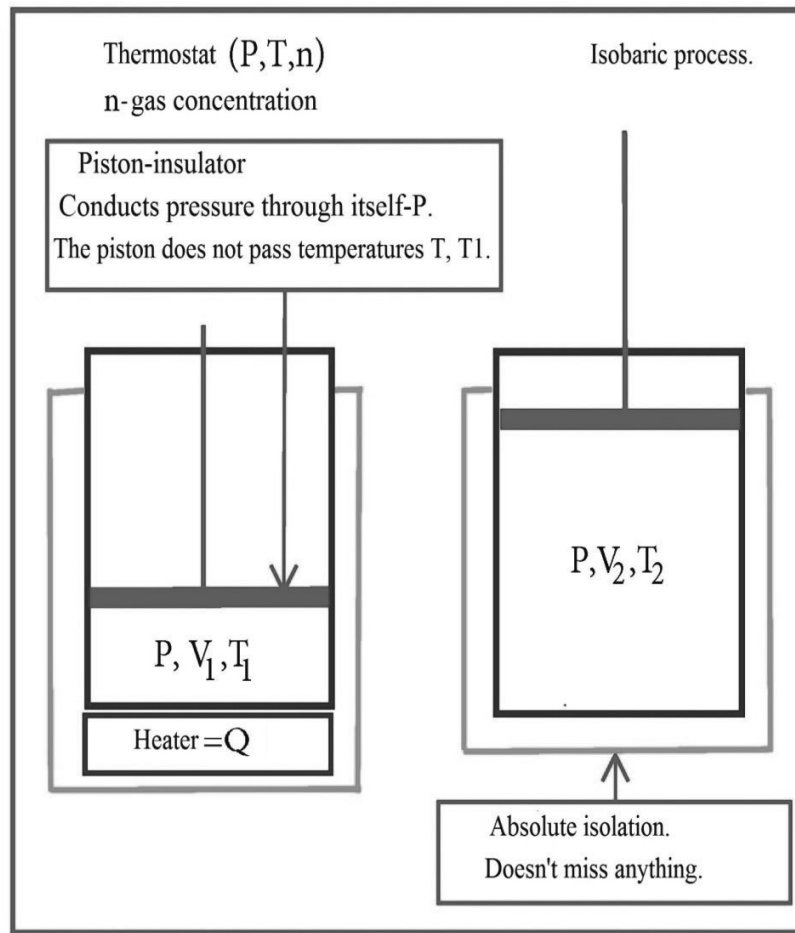
Result 3. Our aim is not to prove great theorems. We just need to involve mathematicians and physicists to modeling the grandiose work of Karl Marx's CAPITAL.

Ultimately, it is necessary to create a mathematical model that accurately predicts the date and scale of the new global crisis. Therefore, we strive to show the beauty of Marx's CAPITAL, to show what beautiful tasks are hidden in this great work. But it is useless to start modeling Marx's CAPITAL without a minimal and axiomatic system.

Chapter VII. PROCESSES in political economic thermodynamics

§ 7.1. Isobaric process with a heater in physics

	Physics	Marx's political economy
	Isobaric process	
1	Thermostat	World market. Small-scale production
2	Thermodynamic system	Local small-scale market-state
3	The piston is frictionless, so it passes pressure p	Free movement of workers to and from the world market
	Consequence. The pressure of the system and the thermostat are always equal	Consequence. The fundamental constant of value of a worker of the local market and the world market are always equal to each other
		Transition period
		Migrant workers work. They sell their commodities at the local market.
		They send money home to the thermostat. Money transfer is allowed only during the transition process.
		The end of the first transition period. Option No.1. After the end of the first transition period, migrant workers were forbidden to send money home to the thermostat.
		Option No.2. After the end of the first transition period, migrant workers were not forbidden to send money home to the thermostat.
		The working day r remains constant and is equal to eight hours: $r = 8$. It is fixed by the law of the state. There are no labour reserves on the local market.
		The market is calculated in one week. Number of working days is 5. $d = 5$
	Insulators	
	of temperature	of commodities and money
4	The piston and the vessel are made of a rigid heat-insulating material. They do not pass the temperature.	Traders, commodities and money are not allowed to cross the border.
	Heater	
5	The heater Q is inside the vessel. It is not connected to thermostat. Q is thermal energy, the energy entering the system using the phenomenon with the help of thermal conductivity.	A treasure of gold coins Q was found inside the market. Example. During the renovation of an Indian temple, the authorities found treasures worth 22 billion dollars. Q is the money value. It is important, that the money is divided equally for everyone. But they are transferred to the hands in small parts.



The rule of signs in the first law of thermodynamics $\delta Q = dU + \delta A$		
Q	The energy of the thermostat or heater transferred to the gas in a thermodynamic way	Positive
Q	The money value of the heater or the world market transferred to the local market in a thermodynamic way	
Q	Example. 5000 rubles (grams of gold) came from the local market to the thermostat. Then $Q = -5000$	Negative
A	Gas work against the thermostat or against an external force	Positive
A	This is the real work of real people of the local market. The value that they create is called the NEW VALUE.	Positive
A	Example. An external force compress the gas and perform 100 joules of work at the same time, then $A = -100$ joules	Negative
U	Internal gas energy	Positive
U	Is the market value old?	

The first law of thermodynamics in physics.

Theorem. The thermostat energy δQ , transferred to the gas in a thermodynamic way, is spent on changing the internal energy of the gas and on the operation of the gas against the thermostat:

$$\delta Q = dU + \delta A$$

The first law of thermodynamics in political economic thermodynamics.

Theorem. The money value of the world market δQ , transferred to the local market in a market way, is spent on changing the total market value and creating new value by the workers of the local market:

$$\delta Q = dU + \delta A$$

There is a description of the isobaric process. After slow operation of the heater, an isobaric expansion of the thermodynamic system occurred. For simplicity, we can assume that the temperature of the thermostat and the initial temperature of the thermodynamic system are equal to each other: $T = T_1$.

The ideal gas law:

$$\begin{cases} pV_1 = \nu R\theta_1 \\ pV_2 = \nu R\theta_2 \end{cases} \Rightarrow p(V_2 - V_1) = \nu R(\theta_2 - \theta_1) \Rightarrow p\Delta V = \nu R\Delta\theta$$

The change in the internal energy of a two-dimensional gas:

$$\Delta U = \nu R d\Delta.$$

The gas expansion of the system is as follows: $\Delta A = p\Delta\theta$.

Consequence. The increase in the internal energy of the gas is equal to the work of the gas:

$$A = p\Delta V = \nu R\Delta\theta = \Delta U$$

The first law of thermodynamics:

$$Q = \Delta U + A$$

Consequence.

$$\begin{cases} A = \frac{Q}{2} \\ \Delta U = \frac{Q}{2} \end{cases}$$

Final volume:

$$A = p\Delta V = \frac{Q}{2} \Rightarrow \Delta V = \frac{Q}{2p} \Rightarrow V_2 - V_1 = \frac{Q}{2p} \Rightarrow V_2 = V_1 + \frac{Q}{2p}$$

Final temperature:

$$\Delta U = \nu R\Delta\theta = \frac{Q}{2} \Rightarrow \Delta\theta = \frac{Q}{2\nu R} \Rightarrow \theta_2 - \theta_1 = \frac{Q}{2\nu R} \Rightarrow \theta_2 = \theta_1 + \frac{Q}{2\nu R}$$

We transform:

$$\begin{cases} \nu = N \\ R = 1 \end{cases} \Rightarrow \theta_2 = \theta_1 + \frac{Q}{2N}$$

We calculate the entropy and have:

$$\begin{cases} \delta Q = dU + dA \\ dU = \nu R d\theta \\ dA = p dV \end{cases} \Rightarrow \delta Q = \nu R d\theta + p dV$$

The ideal gas law:

$$pV = \nu R\theta \Rightarrow p dV = \nu R d\theta$$

We get:

$$\delta Q = \nu R d\theta + p dV = 2\nu R d\theta$$

The second law of thermodynamics:

$$dS = \frac{\delta Q}{\theta} \Rightarrow \Delta S = 2\nu R \int_{\theta_1}^{\theta_2} \frac{d\theta}{\theta} = 2\nu R \ln\left(\frac{\theta_2}{\theta_1}\right)$$

Entropy:

$$\Delta S = 2\nu R \ln \frac{\theta_2}{\theta_1} = 2\nu R \ln \left(\frac{\theta_1 + \frac{Q}{2N}}{\theta_1} \right)$$

We transform:

$$\left|_{R=1}^{\nu=N} \Rightarrow \Delta S = 2N \ln \left(1 + \frac{Q}{2N\theta_1} \right) \right.$$

Total heat capacity:

$$\delta Q = C_p d\theta \Rightarrow C_p = \frac{\delta Q}{d\theta} = \frac{2\nu R d\theta}{d\theta} = 2\nu R = 2N$$

§ 7.2. Is the physical isobaric process with a heater a political economic process?

The isobaric process in political economy			
The equation of the state of the small-scale market in two versions			
$pV = \nu R\theta$		$pV = Nk\theta$	
There is a market with two commodities: leather and boots			
The entire population is divided into four variable categories.			
Consumers	Producers	Sellers	Buyers
They consume the purchased leather, make it suitable for the production of boots	They produce boots	They sell boots	They buy leather
These categories are variables. Every small-scale producer goes through all four categories. If today he produces boots, tomorrow he will sell them.			
A treasure with money value Q is found. The money value of the treasure enters the market in small portions. Market demand increased by a small value.			
A serious problem			
We assume that for a small period of time Δt the money value ΔQ entered the market. It will be divided equally into four categories of small-scale commodities. But consumers cannot use this money instantly, they are busy with work. Only buyers can use this money, they will buy more. The other two categories save money.			
Market prices are rising. The same happens with the right side of the equation: $pV = \nu R\theta$. Then the left side of the equation of state also begins to rise, it means the value pV rises. But			

since the length of the working day is limited by law, the fundamental constant of value p begins to rise. The local market workers are getting richer than the thermostat workers, the world market workers.	
Immigration begins. Workers from the world market are transferred to the local market. The volume of labour time V grows. The consumer mass is also growing. Prices fall until the fundamental constants of the local market and the world market are equal.	
These empirical considerations show that the isobaric process in political thermodynamics is possible.	
In physics, we got $A = \Delta U = \frac{Q}{2}$. This is logical, variable A is the real work of workers, and the variable ΔU is the additional profit of traders. But traders and workers are the same people. Therefore, the division is equally.	
The value $A = p\Delta V = \frac{Q}{2}$ is the newly created value by immigrants. Our model is money, not VALUE. The measure of value in it is gold.	
Entropy is the total use value. Use value has increased: $\Delta S = 2N \ln \left(1 + \frac{Q}{2N\theta_1} \right)$	
We have: $x \rightarrow 0 \Rightarrow \ln(1+x) \sim x$. We get: $N \rightarrow \infty \Rightarrow \Delta S \sim \frac{Q}{\theta_1}$	
The total consumer mass is the thermal mass or the total heat capacity. The total heat capacity of the isobaric process is equal to: $C_p = 2N$. Probably, the total consumer mass has grown if we compare it with the heat capacity $C_v = N$. But the authors could not convincingly formulate in economic terms the fact of an increase in the consumer mass.	
Commodity mass N . The commodity mass remained constant. But how can it be? After all, additional workers have arrived on the local market. It is possible if labour productivity is falling. Probably, we need a model of a thermodynamic system with a variable gas mass? No, the problem is more complicated.	
How many migrant workers have arrived at the local market?	
We calculate the market in one week. Number of working days: $d = 5$	
The working day is equal to eight hours: $r = 8$	
So the number of migrant workers is equal to: $n = \frac{\Delta V}{rd} = \frac{\Delta V}{8 \cdot 5} = \frac{\Delta V}{40}$	
Local workers (not migrant workers) earned: $A_1 = pV_1$	

There is what migrant workers created in the local market	
ΔV	Labour value
$A = p\Delta V$	Thrice abstract value or just VALUE. $A = \frac{Q}{2}$, but the value A is not money value. It is measured by $\frac{Q}{2}$.
$\Delta S = 2N \ln \left(1 + \frac{Q}{2N\theta_1} \right) \approx \frac{Q}{\theta_1}$	Use value. Additional use value is the carrier of thrice abstract value (VALUE) A
$\nu R \Delta \theta = \frac{Q}{2}$	Migrant workers sold their commodities. They traded their abstract VALUE for a money value $\frac{Q}{2}$
Results	
Thermostat	Local market. What is left in the local market?

Migrant workers took out the money value to the thermostat $\frac{Q}{2}$	There is an additional use value ΔS . It is the carrier of thrice abstract value or a VALUE. Its value is equal to A.
	There is money value $\frac{Q}{2}$
	Money value $\frac{Q}{2}$ is for servicing (exchange) use value ΔS .
The end of the first transition process	
Option No.1	After the end of the first transition process, migrant workers are forbidden to send money to the thermostat.
	Migrant workers stay on the local market forever. They merge with the indigenous people.
Option No.2	After the end of the first transition process, migrant workers are not forbidden to send money to the thermostat.
The second transition process is isobaric compression	
Theorem. Isobaric compression will be with the refrigerator.	
The active parameter causing market fluctuations will be the money value $\frac{Q}{2}$	
Proof. The process will be isobaric	
When there is a leakage of migrant workers' money into the thermostat, the money value in the local market decreases \Rightarrow prices fall \Rightarrow the fundamental constant of value of a person decreases \Rightarrow migrant workers return home to the thermostat. But they return in small groups, not at once. Moreover, the fundamental constant will fluctuate around the fundamental constant of the thermostat. The isobaric process is justified. But will it be with the refrigerator?	
Question. Migrant workers have money value $\frac{Q}{2}$. They send money in small parts. But can they send all their money in the amount of $\frac{Q}{2}$.	
<p>First answer: They can, because it is their money, but it is complicated.</p> <p>Lemma. The stationary systems in the thermodynamics are statistical models.</p> <p>Consequence. We assume that if the market worked for one hour, there would be an infinite number of transitions $T_1 \rightarrow D_1 \rightarrow T_2 \rightarrow D_2 \rightarrow \dots \rightarrow T_n \rightarrow D_n \rightarrow \dots$</p> <p>Here can be some problems. Migrant workers sent some of the money to the thermostat. Then they produced, sold, bought, and so on. And in the end they lost it. The stationary models are conservation laws, where everything should be preserved.</p> <p>So, we have proved that the isobaric process can be considered a process with a refrigerator. But there is another contradiction.</p>	
<p>The number of migrant workers is equal to: $n = \frac{\Delta V}{40}$. They will work for one week and the total labour time will be equal to ΔV. They will take their labour value ΔV and go to the thermostat. So, they will produce the work $A = p\Delta V$ in the world market (thermostat).</p> <p>The problem is that there is a contradiction. After all, they leave in small groups. The remaining part continues to work in the local market. And so part of the work $A = p\Delta V$ must remain in the local market. How to resolve the contradiction? There is the answer.</p>	
<p>So, some of the migrant workers have left and now they are working in the thermostat, and the other part of the migrant workers continues to work in the local market. The second part sells commodities and money to the thermostat. And then one more group of migrant workers worked for a week and now they are leaving. The second transition process ended with some kind of result.</p> <p>We get: work of those who went home + work of those who stay – work of those who stay = work of those who went home. It is obvious. It is all about the sign. The work of those who went home should be positive for the thermostat and negative from the point of view of the</p>	

local market.
Second answer. The VALUE after the first transition period is called the old value. And the value born in the second transition period is called the new value. Thus, from the point of view of physics, work in political economy is only work on creating new value. The work in political economy to create old value is not work from the point of view of physics.
So, the isobaric process with refrigerator seems to be justified. Results
All migrant workers will leave and take with them the money value $\frac{Q}{2}$
The market will return to the state it was before the first transition process. There will be nothing left of the Q treasure. The world market has taken the money value from the local market.

Question. If the working day is not established by law and the border is open for workers, what will happen? Will local workers increase their labour hours, or will migrant workers get ahead of them?

Answer. We need to specify additional conditions. For example: local workers are lazy, and migrant workers are hardworking ones. Or local workers are educated, and migrant workers are illiterate ones.

The theorem of the great Friedrich Engels is that “MAN IS A STATISTICAL ATOM OF HISTORY” from the book “Dialectics of nature”.

Here is a migrant worker as a molecule of political economy gas. We know that in order to introduce an external molecule into a vessel with a gas, it is necessary to expend additional energy, which is given by a special chemical potential. The pressure p in the formula $A = p\Delta V$ is that chemical potential for workers. A migrant worker must withstand competition in the new labour market. A competition is the pressure.

The dialectical pair of worker-money is a pair of electron-hole

The worker leaves the thermostat and comes to a new local market, and a hole is formed in its old place. The money in the amount of $A = p\Delta V$ goes from the local market to the thermostat and closes this hole.

Lemma. The small-scale market creates unemployment and a reserve army of labour.

Justification. In the isobaric process, excess workers can leave the local market for the thermostat, the world market. The workers of the local market are made superfluous by the law of value in the ideal gas equation.

We can use the people accumulator in the form of heater-refrigerator instead of the thermostat. In economics, this accumulator is called the reserve army of labour or the class of the unemployed. Thus, unemployment and the reserve army of labour exist in a small-scale society, but in an embryonic state.

Each such transition in thermodynamics has its own chemical potential.

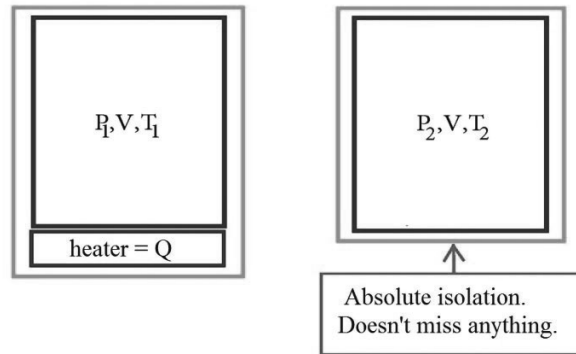
Accumulators	Functioning of accumulators	
Thermostat - world market	The volume enhancer of the labour-power	Thermostat workers come to the local market if necessary
	The volume reductor of the labour-power	Excess workers are not needed by the local market due to the law of value, and they leave the local market and go to the thermostat
Unemployed	The volume enhancer	Unemployed people find work in the local market

class. Reserve Army of La- bour	of the labour-power	
	The volume reductor of the labour-power	Excess workers of the local market go to the unemployed class

§ 7.3. Is a physical isochoric process with a heater a process in political economy?

Physical isochoric process with a heater

Isochoric process



Thermodynamic calculation in physics.

The ideal gas law:

$$\begin{cases} p_1 V = \nu R \theta_1 \\ p_2 V = \nu R \theta_2 \end{cases} \Rightarrow (p_2 - p_1) V = \nu R (\theta_2 - \theta_1) \Rightarrow V \Delta p = \nu R \Delta \theta$$

Internal energy of a gas: $\Delta U = \nu R \Delta \theta$.

The work of a gas in an isochoric process is zero: $\delta A = p dV = 0$

The first law of thermodynamics:

$$Q = \Delta U + A = \Delta U$$

Consequence. The energy of the heater increases the internal energy of the gas:

$$\begin{cases} \Delta U = \nu R \Delta \theta = Q \\ \Delta U = V \Delta p = Q \end{cases}$$

Final pressure:

$$V \Delta p = Q \Rightarrow \Delta p = \frac{Q}{V} \Rightarrow p_2 = p_1 + \frac{Q}{V}$$

Final temperature:

$$\nu R \Delta \theta = Q \Rightarrow \Delta \theta = \frac{Q}{\nu R} \Rightarrow \theta_2 = \theta_1 + \frac{Q}{\nu R}$$

We transform:

$$\begin{cases} \nu = N \\ R = 1 \end{cases} \Rightarrow \theta_2 = \theta_1 + \frac{Q}{N}$$

Entropy:

$$\begin{cases} \delta Q = dU + dA \\ dU = \nu R d\theta \\ dA = p dV = 0 \end{cases} \Rightarrow \delta Q = \nu R d\theta$$

The second law of thermodynamics:

$$dS = \frac{\delta Q}{\theta} \Rightarrow \Delta S = \nu R \int_{\theta_1}^{\theta_2} \frac{d\theta}{\theta} = \nu R \ln \frac{\theta_2}{\theta_1}$$

Entropy:

$$\Delta S = \nu R \ln \frac{\theta_2}{\theta_1} = \nu R \ln \frac{\theta_1 + \frac{Q}{N}}{\theta_1}$$

We transform:

$$\left| \begin{matrix} \nu = N \\ R = 1 \end{matrix} \right. \Rightarrow \Delta S = N \ln \left(1 + \frac{Q}{N\theta_1} \right) \approx \frac{Q}{\theta_1}$$

Total heat capacity:

$$\delta Q = C_V d\theta \Rightarrow C_V = \frac{\delta Q}{d\theta} = \frac{\nu R d\theta}{d\theta} = \nu R = N$$

Axioms of the isochoric market with a heater

- 1) An isochoric market is an isolated market by definition. This means a complete prohibition of the movement of labour, money, commodities, and traders. We can assume that the isochoric market is the world market, and that there are no other markets on the planet.
- 2) A money mass of volume Q is randomly come into the isochoric market from the heater. The market leaves of equilibrium state, and after long fluctuations it enters a new equilibrium state. We need to define all the characteristics of the transition period.
- 3) The market has no reserves of labour power. Labour power cannot be attracted from other industries. Workers are not allowed to reduce or increase their working time. So, the labour value V is established by law on the same level as state violence.

Results of the isochoric process with a heater in political economy		
V	The labour value is constant according to the condition of the task.	$V = const$
p	The fundamental constant of human value.	$p_2 = p_1 + \frac{Q}{V}$
θ	The price of a unit of consumer mass of commodities will grow due to an increase of the fundamental constant.	$\theta_2 = \theta_1 + \frac{Q}{N}$
S	The total use value of commodities (entropy) increases.	$\Delta S = N \ln \left(1 + \frac{Q}{N\theta_1} \right) \approx \frac{Q}{\theta_1}$
C_V	The total consumer mass (heat capacity) is equal to N .	$C_V = N$
N	The commodity mass is the same.	

A	New thrice abstract value (VALUE) was not created.	$A = 0$
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The theory of duality between people and commodities	
pV	NkT
Supply	Demand
People	Commodities
Real work of real people	Trade
Production	Trade
Distribution of value Q between production and trade	
Zero	Q
Workers do not get money from an external heater.	All additional amounts go to trade, to DEMAND.
Additional supply is zero.	The value Q is the sum of the additional demand.
The value V do not change as a supply according to the isochoric process	But the number of commodities is unchanged, and therefore prices will increase by the amount of Q
Law of supply and demand: $pV = Nk\theta_2$	$\theta_2 = \theta_1 + \frac{Q}{Nk}$
So, the supply pV will increase in value.	
But the supply of the quantity of labour V in labour values is constant. And therefore, the fundamental constant p will grow.	

What does an increase in prices and an increase in the fundamental constant mean in an isochoric isolated market?

Answer. It means the inflation of gold money. The quantity of prices has changed here. Nothing has changed in the economy. New value was not created.

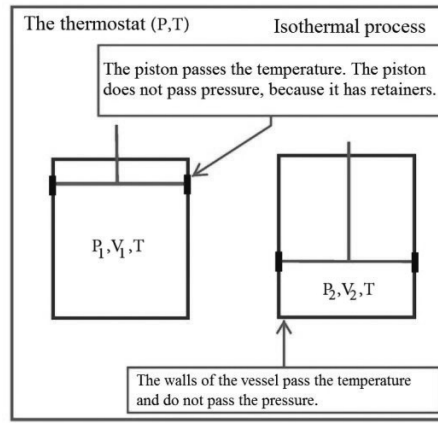
This means that the TOTAL QUANTITY OF VALUES was not increased, it is still the same. Although the quantity of gold has increased.

CONCLUSION

GOLD-THING IS NOT A VALUE! Gold is money, gold money. Gold money is also subject to inflation, but the VALUE of inflation is not subject to inflation.

§ 7.4. Is a physical isothermal process with a volume reductor a process in political economy?

Physical isothermal compression with volume reductor and thermostat



Description of isothermal compression in physics.

The walls of the vessel and the piston are thin, but rigid. Therefore, they pass the temperature. We open the piston clamps and start pressing on the piston. We press slowly so that the excess heat can escape through the thin walls of the vessel during the time. We compress the gas until the volume of the gas is equal to V_2 . And then we close the piston clamps again.

During compression, the gas temperature increases slowly and becomes higher than the thermostat temperature. The walls of a thermodynamic system pass the temperature, and therefore excess heat passes through the walls into the thermostat. And the temperatures of the system and the thermostat equalize again. This happens many times on small changes in all parameters. And, in the end, the thermodynamic system comes to a new equilibrium state (p_2, V_2, θ).

Thermodynamic calculation in physics.

The ideal gas law:

$$\begin{cases} p_1 V_1 = \nu R \theta \\ p_2 V_2 = \nu R \theta \\ p V = \nu R \theta \end{cases} \Rightarrow p = \frac{\nu R \theta}{V}$$

Final pressure:

$$p_2 = \frac{\nu R \theta}{V_2}$$

The change in the internal energy of the gas is: $\Delta U = \nu R \Delta \theta = 0$.

The work of an external force against a gas in an isothermal process is:

$$-\delta A > 0;$$

$$\delta A = p dV \Rightarrow A = \int_{V_1}^{V_2} p dV = \int_{V_1}^{V_2} \frac{\nu R \theta}{V} dV = \nu R \theta \ln \left(\frac{V_2}{V_1} \right) < 0.$$

The first law of thermodynamics:

$$Q = \Delta U + A = A < 0$$

Consequence. All the work of external forces against the gas went to increase the internal energy of the thermostat:

We have:

$$\delta Q = dU + \delta A = \delta A < 0$$

The second law of thermodynamics:

$$dS = \frac{\delta Q}{\theta} \Rightarrow \Delta S = \int_{\theta}^{\theta} \frac{dA}{\theta} = 0$$

Total heat capacity:

$$\delta Q = C_V d\theta \Rightarrow C_V = \frac{\delta Q}{d\theta} = \frac{\delta Q}{0} = -\infty$$

Results of the isothermal process with a volume reductor in political economy		
V	The labour value decreased according to the condition of the task.	$V_2 < V_1$
p	The fundamental constant of human value increased.	$p_2 = \frac{\nu R \theta}{V_2} > p_1$
θ	The price of a unit of consumer mass of commodities is constant and is equal to the price on the world market.	$\theta = const$
S	The total use value of commodities (entropy) did not change.	$\Delta S = 0$
C	The total consumer mass (heat capacity) is equal to minus infinity.	$C = -\infty$
N	The commodity mass is the same.	
A	Thrice abstract value (VALUE) decreased.	$A = \nu R \theta \ln \left(\frac{V_2}{V_1} \right) < 0$

Political economic explanation of isothermal compression

Physics	Economy
The isothermal insulator does not pass pressure p	
The walls of the vessel are rigid, and the piston is fixed with clamps.	There is a pressure insulator. Free movement of labour-power across the borders of a small state is prohibited.
The pressure in the thermostat and inside the vessel does not equalize.	The fundamental constants of value of the small market-state and the world market do not equalize. They do not affect each other.
The isothermal insulator passes the temperature (price) θ	
The walls of the vessel and piston are thin.	The free movement of commodities and money from the local market to the world market and vice versa is allowed.
The temperature in the vessel and the thermostat are equalized.	Prices on the local and world markets are equalized.
Free movement of traders with the money from the sale is allowed.	
A local trader sells commodities in the world market and brings money home to the local market. This money starts to press on the local market.	
A trader from the world market can bring the commodity and sell it in the local market, but he takes the money home to the thermostat. The withdrawal of this money from circulation in the local market affects the market.	

What external forces did the work of compression during isothermal compression in physics?

We compressed the vessel. It means that the external forces are also us. We are a volume reductor. Thus, we have three objects: a thermostat, a thermodynamic system, and a volume reductor. We have done our work by compressing the gas.

$$A = \nu R \theta \ln \left(\frac{V_2}{V_1} \right) < 0$$

Our energy was transferred to the gas, and then it completely went into the thermostat through the walls, since $Q = A$.

Description of isothermal compression in political economy.

Our thermodynamic system is surrounded by a pressure isolator. Therefore, the transition of labour-power to a thermostat, to the world market is prohibited. Consequently, the quantity of labour cannot decrease due to the emigration of workers abroad.

The total quantity of labour in the isothermal market can decrease only for internal reasons. What are these reasons? For instance, it is forced or involuntary reduction of the working day. But in order for us to apply thermodynamics to political economy, it is necessary that the reduction of the working day or week occurs slowly and in small parts.

Reasons that can cause a reduction in the total working time:

- 1) Aging of nationality.
- 2) Diseases and death, as a result of changes in the state of the habitat.
- 3) The reduction of coal deposits leads to a decrease in production and a reduction in workers.

What happens to the commodity after the purchase?

If the buyer is not a producer, then after the purchase he consumes the commodity. The commodity disappears. The value contained in the commodity also disappears without a trace.

There is a market with two commodities: leather and boots. How does the small-scale producer function?

The scheme is as follows: consume \rightarrow produce \rightarrow sell \rightarrow buy.

- 1) The first step. The small-scale producer consumes the leather, prepares it for the production of boots. The leather is gone. The value contained in the leather also disappears.
- 2) The second step. The small-scale producer creates the boots. He creates new value.
- 3) The third step. The small-scale producer sells the boots. He exchanges value for money value.
- 4) The fourth step. The small-scale producer buys leather. He exchanges the money value for the value contained in the leather.

Conclusion.

- 1) If the consumer is not a producer, then he completely consumes the commodity. Both the commodity and the value contained in the commodity disappear.
- 2) If the buyer is a small-scale producer, then a small-scale producer is a buyer-producer. He also consumes the purchased commodity. It also destroys the value of the purchased commodity.
- 3) But then he creates a new value.

Question. The consumer has consumed the commodity and the value has disappeared. Does this mean that the commodity-molecule has disappeared and there is no model of an ideal gas?

Answer. The producer produced a new commodity with the same value (in the small-scale market model) with money from the consumer.

So, we can assume that the consumer is the walls of the vessel, and that he does not absorb the commodity, but the commodity-molecule hit it and bounced off.

We need to show that the ideal gas law correctly reflects the functioning of the market.

What happens in a crisis?

The quantity of labour or labour value V decreases. $dV < 0$

$$\left| \begin{array}{l} pV = Nk\theta \\ U = Nk\theta \\ \delta A = pdV \\ \delta Q = dU + \delta A \end{array} \right. \Rightarrow \left| \begin{array}{l} pdV + Vdp = Nkd\theta \\ \delta Q = Nkd\theta + pdV \end{array} \right.$$

Can the price fall? If it cannot and $d\theta < 0$. We have:

$$\left| \begin{array}{l} dV < 0 \\ \delta Q = Nkd\theta + pdV \end{array} \right. \Leftarrow \delta Q < 0.$$

But if the price falls, it becomes less than the world price.

- 1) Foreign consumers will buy commodities on the local market, not on the world one. And they will leave the money in the local market. The commodities and their values will be irrevocably destroyed. Commodities-molecules are removed from the market, and money-molecules take their places.
- 2) Foreign traders will buy commodities on the local market and sell them on the world market. They will leave money in the local market. They will profit from the thermostat. This profit has nothing to do with the local market. Here everything is similar to point 1.
- 3) Foreign producers will buy leather at the local market. They will create boots from them in the thermostat.
- 4) Local producers will take out their commodities, sell them on the world market and bring the money home.
- 5) Local traders will buy commodities on the local market, and sell them on the world market. They will leave the money at the local market. They will profit from the thermostat. They will also bring their profits home to the local market.
- 6) Local consumers will act as usual.

Conclusion. In all cases $\delta Q > 0$. It is a contradiction.

Can the price increase? For instance, $d\theta > 0$.

Lemma. An increase in the price causes an automatic increase in the fundamental constant of value of a man. There is the proof.

$$\left| \begin{array}{l} pV = Nk\theta \Rightarrow pdV + Vdp = Nkd\theta \\ dV < 0 \Rightarrow pdV < 0 \end{array} \right. \Rightarrow Vdp = Nkd\theta - pdV > 0 \Rightarrow dp > 0$$

If the price of a commodity rises, then it becomes more than the world price. In this case, local traders buy commodities on the world market and sell them on the local market. They leave money in the thermostat. They profit from the local market. The commodity mass of the local market is growing due to the import of foreign commodities into the local market. And the money value of the market decreases. After all, money is withdrawn from the local market. The price should fall.

Thus, if the price rises at the beginning of the process, then after a while the price will fall. Thus, the price will fluctuate around the original price.

The ideal gas law is a model with a constant commodity mass. And therefore it cannot express this phenomenon.

Results. We have shown that the free import of money and commodities creates an isothermal process. This means that all the formulas for the isothermal process are correct for such a market.

The fundamental value constant has increased from p_1 до $p_2 > p_1$. The price of the commodities has also increased. The money value exported from the local market to the thermostat is:

$$|A| = |Q| = \left| Nk\theta \ln \left(\frac{V_2}{V_1} \right) \right|.$$

Lemma. The small-scale market creates banks and treasures.

Justification. In an isothermal process excess money can go from the local market to the world market. The money of the local market becomes excess money due to the law of value in the form of the ideal gas equation. For the same reason, thermostat money can go to the local market and stay there forever.

We can use an accumulator in the form of a heater-refrigerator instead of a thermostat. There are two accumulators in the economy: treasures and banks. Thus, the possibility of the birth of banks and treasures has already existed in a small-scale society.

Accumulators	Functioning of accumulators	
Thermostat - global market	The volume enhancer of the labour-power	The thermostat money comes to the local market if necessary
	The volume reductor of the labour-power	Excess money is not needed by the local market due to the law of value, and it leaves the local market and goes to the thermostat
Treasure	The volume enhancer of the labour-power	Money from the treasures is transferred to the means of circulation if necessary.
	The volume reductor of the labour-power	The excess money goes to the accumulator, to the treasure
Banks	The volume enhancer of the labour-power	Money from banks is transferred to the means of circulation if necessary.
	The volume reductor of the labour-power	The excess money goes to the banks

The dialectical commodity-money pair is an electron-hole pair

If the commodity leaves the local market and goes into the thermostat, then there is a hole in the local market. But the money goes from the thermostat to the local market and closes that hole. So each transition has a chemical potential.

§ 7.5. Is a physical adiabatic process with a volume accumulator a process in political economy?

Definition. The adiabatic process is a process in which the thermodynamic system is isolated from the thermostat and the heater, but not isolated from the enhancer (reductor) of the volume (quantity of labour).

There is the physical adiabatic process. Expansion. The thermodynamic system by external force of enhancer is transferred from the state (p_1, V_1, θ_1) to the state (p_2, V_2, θ_2) . The volume enhancer forcibly increases the volume from the value V_1 to the value V_2 . So, the parameters $(p_1, V_1, \theta_1, V_2)$ are known. So, it is necessary to calculate the system.

Thermodynamic calculation in physics.

The ideal gas law:

$$\begin{cases} p_1 V_1 = Nk\theta_1 \\ p_2 V_2 = Nk\theta_2 \\ pV = Nk\theta \end{cases} \Rightarrow p = \frac{Nk\theta}{V}$$

The change in the internal energy of a gas: $dU = Nkd\theta$.

The first law of thermodynamics:

$$\begin{cases} \delta Q = 0 \\ \delta Q = dU + \delta A \\ dU = Nkd\theta \\ \delta A = pdV = \frac{Nk\theta}{V}dV \end{cases} \Rightarrow -Nkd\theta = \frac{Nk\theta}{V}dV$$

We divide the variables:

$$-\frac{d\theta}{\theta} = \frac{dV}{V} \Rightarrow \theta = \frac{C}{V}$$

We find the constant C :

$$\theta_1 = \frac{C}{V_1} \Rightarrow C = \theta_1 V_1$$

We get:

$$\theta = \frac{\theta_1 V_1}{V}$$

Final temperature:

$$\theta_2 = \frac{\theta_1 V_1}{V_2}$$

Relation between initial and final temperature:

$$\frac{\theta_2}{\theta_1} = \frac{V_1}{V_2}$$

We get:

$$p = \frac{Nk\theta}{V} = \frac{CNk}{V^2} = \frac{\theta_1 V_1 Nk}{V^2}$$

Final pressure:

$$p_2 = \frac{\theta_1 V_1 Nk}{V_2^2}$$

Initial pressure:

$$p_1 = \frac{Nk\theta_1}{V_1}$$

Relation between initial and final pressure:

$$\frac{p_2}{p_1} = \left(\frac{V_1}{V_2}\right)^2$$

Work:

$$\delta A = p dV = \frac{\theta_1 V_1 Nk}{V^2} dV \Rightarrow \Delta A = \int_{V_1}^{V_2} \frac{\theta_1 V_1 Nk}{V^2} dV = \theta_1 V_1 Nk \left(\frac{-1}{V_2} + \frac{1}{V_1} \right)$$

$$\Delta A = \frac{\theta_1 Nk(V_2 - V_1)}{V_2} > 0$$

The internal energy:

$$\left| \begin{array}{l} dU = Nk d\theta \\ \Delta U = Nk(\theta_2 - \theta_1) \\ \theta_2 = \frac{\theta_1 V_1}{V_2} \\ \Delta U = Nk\theta_1 \frac{V_1 - V_2}{V_2} < 0 \end{array} \right.$$

Here we check the correctness of the equation:

$$\Delta Q = \Delta U + \Delta A = Nk\theta_1 \frac{V_1 - V_2}{V_2} + \frac{\theta_1 Nk(V_2 - V_1)}{V_2} = 0$$

The second law of thermodynamics:

$$\left| \begin{array}{l} \delta Q = 0 \\ dS = \frac{\delta Q}{\theta} = 0 \Rightarrow \Delta S = 0 \end{array} \right.$$

Total heat capacity:

$$\left| \begin{array}{l} \delta Q = 0 \\ \delta Q = C d\theta \Rightarrow C = 0 \end{array} \right.$$

Results of the adiabatic process with a volume enhancer in political economy		
V	The labour value increased according to the condition of the task.	$V_2 > V_1$
p	The fundamental constant of human value decreased inversely proportional to the squared labour value.	$p_2 = \frac{\theta_1 V_1 Nk}{V_2^2}$
θ	The price of a unit of consumer mass of commodities decreased.	$\theta_2 = \frac{\theta_1 V_1}{V_2}$

S	The total use value of commodities (entropy) did not change.	$\Delta S = 0$
C	The total consumer mass (heat capacity) is zero.	$C = 0$
N	The commodity mass is the same.	
A	Thrice abstract value (VALUE) increased. New value was created.	$\Delta A = \frac{\theta_1 N k (V_2 - V_1)}{V_2} > 0$

WHAT DOES MARX MEAN WHEN HE TALKS ABOUT “DEAD CAPITAL”?

Marx means BOUND ENERGY. The bound energy is that part of the internal energy that cannot be converted into real work under these conditions.

Chapter VIII. Capitalist firm is a HEAT ENGINE operating on Carnot CYCLE

§ 8.1. Assumptions for the realization of the Carnot cycle in the Marx's CAPITAL

Assumptions. An ideal equilibrium world market is considered:

$$(p, Z, V); p = Z/V.$$

We designate such a market as a market under normal conditions, or a normal market. In this case, it is possible to calculate the fundamental constant of value within small limits; a separate letter is necessary to denote it, the same we denoted gravitational acceleration with the letter g , and it is equal to 9.81 m/s^2 .

We denote this constant with p_n and call it **NORMAL FUNDAMENTAL CONSTANT OF VALUE**. This constant of value of the world market is analogous to atmospheric pressure everywhere on the Earth. Then, the world market under normal conditions is (p_n, Z, V) .

However, the weather is constantly changing on the Earth, and there can be low-pressure or high-pressure areas in certain locations. It is the same on the world market. During an economic storm, some regions are able to set local constants of value (higher or lower than the normal fundamental constant). The market molecule is PROLETARIUM.

The duality theory between people and commodities	
$pV = Nk\theta$	
pV	$N\theta$
Labour value of people	Money value of commodities
$V = V_1 + V_2 \dots + V_{M-1} + V_M$	$(\theta_1 + \theta_2 \dots + \theta_{N-1} + \theta_N)$
"M" is number of PEOPLE!	"N" is number of COMMODITIES!
This duality always occurs!	

Theorem.

1. The capitalist enterprise is a political economic HEAT ENGINE.
2. This political economic heat engine operates ON THE REVERSED CARNOT CYCLE, i.e, it is a HEAT PUMP.
3. The capitalist produces HEAT using this engine, i.e, MONEY VALUE. It converts the (working) TIME OF PEOPLE into money value.
4. All parameters of the Carnot cycle are uniquely determined by the Marx's formulas.
5. Marx's equations and Carnot's equations are the same equations.

The capitalist enterprise goal is production of the MONEY VALUE. Heat, i.e. Q variable is MONEY VALUE.

KARL MARX'S EQUATIONS

According to Marx, the value of a capitalistically produced product is separated into three parts:

$$Q_1 = c + v + m$$

where c is constant capital, v is variable capital, m is surplus value.

We denoted all the produced value in gold with Q_1 .

Note. The market volume in hours is denoted with a capital letter V ; according to Marx, variable capital is denoted with a small letter v . This can lead to confusion. We will not change the notations, but write a small letter v in italics.

Assumption 1. The molecules are the proletarians.

The number of workers is constant throughout the entire process and equal to N .

Assumption 2. The gold fundamental constant of value (pressure p_n) is the same both for things and proletarians.

Assumption 3. All calculations are performed for one day, i.e., the capitalist hires a proletarian for one day.

Political economic gas has the following characteristics	
Let us assume that $p_n=5$ gram of gold/labour hour	
$N_A=1$	Avogadro's number for market gas, i.e., there is only one commodity in one mole of gas.
$c_V = 1$	Molar heat at constant volume
$c_p = 2$	Molar heat at constant pressure
$R = 1$	Molar gas constant for political economic gas
$\gamma = \frac{c_p}{c_V} = 2, pV^2 = \text{const}$	Adiabatic equation
$k = 1$	Boltzmann constant is equal to 1 and non-dimensional

§ 8.2. Developing the Carnot CYCLE using Marx's formulas

WE DETERMINE THE VERTEX A OF THE CARNOT CYCLE

The vertices are numbered from 0 to 3.

Step 1. We determine the upper temperature (upper value of labour power) of the Carnot cycle – θ_1 .

At the market, a capitalist buys N proletarians for 1 day at the sum of v grams of gold, at the price of θ_1 . From there, $v = Nk\theta_1$, i.e. $\theta_1 = \frac{v}{Nk}$.

Step 2. We determine the lower volume value – V_0 from the equation $v = p_n V_0$.

The equation becomes: $V_0 = \frac{v}{p_n}$. As a result, there are equalities: $v = p_n V_0 = Nk\theta_1$.

CONCLUSION

We recall that pressure $p_n = 5 \frac{\text{gram of gold}}{\text{labour hour}}$ is the universal gold fundamental constant of value of the world market, i.e. of the thermostat. On this market-thermostat, we define and research the mid-

dle market. We equate pressure p_0 with the universal gold constant of value on a figure of the Carnot cycle below:

$p_n = 5 \frac{\text{gram of gold}}{\text{labour hour}}$, i.e.: $p_n = p_0$. This means that we determined the vertex $A(V_0, p_0)$ of the Carnot cycle.

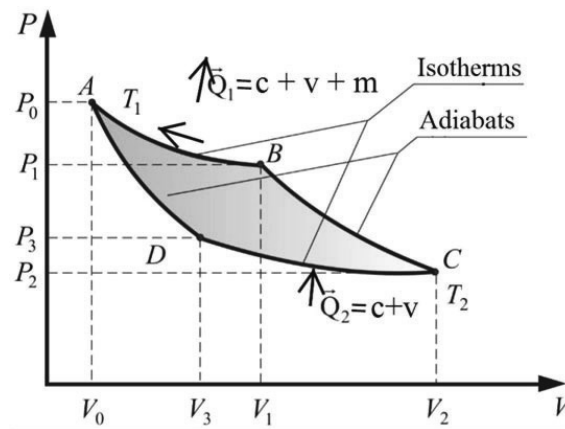
THE MAIN PROBLEM

The proletarian is a dual creature. In one respect, he is a commodity (labour power) on the market, in another – he is a WORKER-PRODUCER.

Consequence. The proletarian in the political economic ideal gas law formula must appear twice: once on the left, once on the right. But it is not known if the numbers M and N are equal. After all, the proletarian as a commodity is not equal to the proletarian as a worker! Moreover, the number of proletarians as commodities may not coincide with the number of the same proletarians, but considered as workers.

Lemma. If one vertex of the Carnot cycle is given, then all the others are uniquely determined by the Marx's equation: $Q_1 = c + v + m$.

There is a picture found on the Web that shows the operating principle of the heat pump. Let us change the direction of the arrows. The Carnot cycle consists of two isotherms and two adiabats. The heat pump operates on the reversed Carnot cycle, i.e., counterclockwise.



The Carnot cycle equations:

$c + v + m = Q_1 = Nk\theta_1 \ln \frac{V_1}{V_0}$	In isothermal processes
$c + v = Q_2 = Nk\theta_2 \ln \frac{V_2}{V_3}$	
$\frac{V_1}{V_0} = \frac{V_2}{V_3}$	For an adiabatic process
$\theta_1 V_0 = \theta_2 V_3$	
$\theta_1 V_1 = \theta_2 V_2$	

Step 3. We determine the lower temperature (lower value of labour power) of the Carnot cycle – θ_2 . Dividing one equality by another, we obtain:

$$\frac{\theta_2}{\theta_1} = \frac{c+v}{c+v+m} \Rightarrow \theta_2 = \frac{c+v}{c+v+m} \theta_1, \theta_2 < \theta_1.$$

Step 4. We determine the volume V_1 (in hours). Variable V_1 can be uniquely found from the equations:

$$c+v+m = Q_1 = Nk\theta_1 \ln \frac{V_1}{V_0} = v \ln \frac{V_1}{V_0} \Rightarrow \ln \frac{V_1}{V_0} = \frac{c+v+m}{v}, V_1 > V_0.$$

Step 5. We determine the pressure, i.e. the new gold fundamental constant, from the equation:

$$p_1 V_1 = Nk\theta_1 = v \Rightarrow p_1 = \frac{v}{V_1}.$$

Upon performing steps 4 and 5, we have uniquely determined the vertex B of the Carnot cycle.

Step 6. We determine the vertex C of the Carnot cycle.

We defined two upper vertices and isotherm temperatures. It means that the isotherm graphs are built. But only one adiabat can pass through one point. On that basis, two lower vertices are also uniquely determined. After all, let us calculate these vertices using the adiabatic process equation:

$$\theta_1 V_1 = \theta_2 V_2 \Rightarrow V_2 = \frac{\theta_1}{\theta_2} V_1 = \frac{c+v+m}{c+v}, V_2 > V_1.$$

We determine the pressure from the adiabatic equation:

$$p_1 V_1^2 = p_2 V_2^2 \Rightarrow \frac{p_2}{p_1} = \frac{V_1^2}{V_2^2} = \frac{\theta_2^2}{\theta_1^2} = \left(\frac{c+v}{c+v+m} \right)^2, p_2 < p_1.$$

Step 7. We determine the vertex D of the Carnot cycle. We obtain:

$$\theta_1 V_0 = \theta_2 V_3 \Rightarrow V_3 = \frac{\theta_1}{\theta_2} V_0 = \frac{c+v+m}{c+v} \frac{v}{p_n}, V_3 > V_0.$$

The second method:

$$\frac{V_1}{V_0} = \frac{V_2}{V_3} \Rightarrow V_3 = V_2 \frac{V_0}{V_1} \Rightarrow V_3 < V_2.$$

Using the isotherm equation, we obtain:

$$p_3 V_3 = p_2 V_2 \Rightarrow p_3 = p_2 \frac{V_2}{V_3} = p \frac{V_1}{V_0}.$$

As a result, the parameter p_3 is also determined. To conclude, the Carnot cycle can be uniquely reproduced using Karl Marx's equations.

Step 8. Derivation of the formula for Marx's profit rate from the Carnot cycle formulas. We have:

$$\frac{\theta_2}{\theta_1} = \frac{c+v}{c+v+m} \Rightarrow \frac{\theta_1}{\theta_2} = \frac{c+v+m}{c+v} = 1 + \frac{m}{c+v} \Rightarrow \frac{\theta_1}{\theta_2} - 1 = \frac{m}{c+v}.$$

CONCLUSIONS

Theorem. The profit rate of a capitalist enterprise, calculated using the Carnot cycle, is:

$$\theta = \frac{T_1 - T_2}{T_2} = \frac{m}{c + v}.$$

Theorem. Thermal efficiency – the efficiency of the Carnot cycle and the Marx's profit rate are the same formula.

§ 8.3. The difference between political economy and physics

Everyone is trying to stress the point that political economy and physics have much in common. But one should do the opposite. It is necessary to tell the difference between these sciences, so that we make new discoveries basing on them.

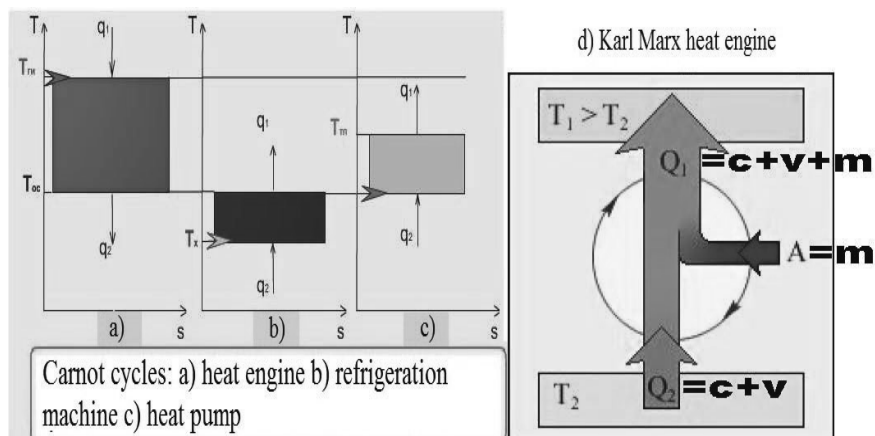
DIFFERENCE №1

The variable capital v is involved in the Carnot cycle twice. The first time we use it to determine the 1st vertex of the Carnot cycle – vertex $A(V_0, p_0)$. Area of the rectangle OP_0AV_0 is equal to the variable capital v . The 2nd time we use variable capital in the value $Q_2 = c + v$, that is, purely geometrically variable capital enters the area of the curvilinear trapezoid V_3DCV_2 .

It is not good. But it is what it is. Up to this point, it appeared that one variable corresponds to each area, i.g. three categories c, v, m can be located at three different areas. Failed.

DIFFERENCE №2

We have constructed a political economic engine that operates on the reversed Carnot cycle, but there are only two of engines: a heat pump and a refrigeration machine. All of a sudden, it turns out that the constructed political economic engine is an unknown third type. Both the heat pump and the refrigeration machine are the same heat engine, but their goals are different. In view of this, their design and efficiency coefficient are different too.



The left picture was taken from the remarkable book written by I.M. Chukhin; the right picture was found in the book written by an anonymous author.

TYPES OF MACHINES operating on the reversed CARNOT cycle		
b) Refrigerator	c) Heat pump	d) Marx's political economic machine is capitalist enterprise
GOALS ARE DIFFERENT		
Exhaust as much heat as possible q_2	Transfer as much energy as possible q_1	Make as much profit as possible, i.e., the variable $m = Q_1 - Q_2 = A$
The most expensive resource in limited quantities		
?	?	Initial capital $Q_2 = c + v$
The cheapest resource in almost unlimited quantities. They are different.		
Heat q_1	Low-grade exhaust heat q_2 . The larger this value, the better.	Surplus value, i.e., variable $m = Q_1 - Q_2 = A$
Efficiency ratios. They are different.		
$\frac{\theta_2}{\theta_1 - \theta_2} = \frac{q_2}{q_1 - q_2} = \frac{q_2}{A}$	$\frac{\theta_1}{\theta_1 - \theta_2} = \frac{q_1}{q_1 - q_2} = \frac{q_1}{A}$	$\frac{A}{Q_2} = \frac{Q_1 - Q_2}{Q_2} = \frac{\theta_1 - \theta_2}{\theta_2} = \frac{m}{v + c}$
CONCLUSION. All three types of machines have different efficiency ratios, cheap and expensive resources; this is why they are different from each other in terms of construction. This means that the Marx's political economic machine is a new type of machine operating on the reversed Carnot cycle. Therefore, the term "Karl Marx's heat engine" has a right to exist.		

§ 8.4. Is it possible to construct Marx's mechanical HEAT ENGINE?

Marx defined the rate of exploitation as the value $\frac{m}{v}$. It is limited both by 24 hours a day and the class struggle. In the authors' opinion, it is possible to construct Marx's mechanical machine.

In heat engines, what is transferred and what is reproduced?	
In thermodynamics	In political economy
Heat Q_2 is transferred by the heat pump	Marx. Constant capital is transferred
	Marx. Variable capital v is reproduced
In both sciences there is a word «TRANSFERRED». It keeps up spirit.	

CRITICISM OF THE CONSTRUCTED POLITICAL ECONOMIC MACHINE

Theorem. Marx's rate of exploitation is $\frac{m}{v}$ value that is a fundamental constant of every country. From there, we have three fundamental constants: fundamental constant of value, rate of profit, rate of exploitation:

$$p, \frac{m}{c + v}, \frac{m}{v}.$$

The capitalist production goal is:

- 1) maximizing the rate of profit $\frac{m}{c+v}$;
- 2) or maximizing the rate of surplus value $\frac{m}{v}$;
- 3) or maximizing surplus value m .

All three parameters cannot be maximized simultaneously. If we maximize one parameter, other parameters may decrease.

Possible optimization options are as follows:

Option 1. We designate one of the parameters as the main one, e.g., the rate of profit is the main parameter. We maximize it and do not pay attention to the decrease of other parameters.

Option 2. We consider all three parameters to be the main ones. We optimize them using Pareto efficiency. In that case, it is necessary to prove that Pareto efficiency has political economic sense.

Option 3. One of the parameters is designated as a fundamental constant, e.g., the rate of profit is the fundamental constant. So, we maximize profit under the stipulation that the rate of profit is constant.

But what if the firm's rate of profit has decreased? Then the capitalist reduces production until the rate of profit becomes equal to the market average. There are other optimization options, but the principle of determinism says that there is only one truth.

DISCUSSION OF THE POLITICAL ECONOMIC CARNOT CYCLE

All concepts and variables of the Carnot cycle must have a political economic sense. If even one of the variables does not meet this condition, then the political economic Carnot cycle would be for nothing, even if all the formulas are plausible.

OBJECTIVE: JOIN TWO MARKETS TOGETHER. Question. What commodity price will be set when two previously isolated markets are combined into one united market?

So, there are isolated markets: $p_1V_1 = N_1k\theta_1$, $p_2V_2 = N_2k\theta_2$. We recall that θ_1, θ_2 are prices of the same commodity in grams of gold, N_1, N_2 are quantity of this commodity, P_1, P_2 are fundamental constants of value in these two markets. Adding and transforming the equations, we get:

$$p_1V_1 + p_2V_2 = N_1k\theta_1 + N_2k\theta_2, \frac{p_1V_1 + p_2V_2}{V_1 + V_2} (V_1 + V_2) = \frac{N_1k\theta_1 + N_2k\theta_2}{N_1 + N_2} (N_1 + N_2).$$

We introduce new notations for the united market (No. 3) and get:

$$p_3V_3 = N_3k\theta_3, p_3 = \frac{p_1V_1 + p_2V_2}{V_1 + V_2}, V_3 = V_1 + V_2, \theta_3 = \frac{N_1k\theta_1 + N_2k\theta_2}{N_1 + N_2}, N_3 = N_1 + N_2.$$

We formally derived the unified market equation, without reference to Dalton's law. It is easier.

CONCLUSION

1) The commodity price on the united market is:

$$\theta_3 = \frac{N_1k\theta_1 + N_2k\theta_2}{N_1 + N_2}.$$

Conclusion. The commodity price depends on the quantity of the commodities.

2) The new fundamental constant of value is:

$$p_3 = \frac{p_1V_1 + p_2V_2}{V_1 + V_2}.$$

Conclusion. The fundamental constant of value depends on labour value – volume of labour time V .

WHEN “AVERAGE”, “MONEY”, AND “TEMPERATURE” CONCEPTS WILL DISAPPEAR?

There are two equilibrium markets. We put them together. It takes time for the united market to come to equilibrium after many random fluctuations. As long as there are fluctuations, there is no fundamental constant of value and price. This means that there is no “MONEY” category. The old “MONEY” category have disappeared, the new one has not been born. As a result, joining markets together restarts the ENTIRE MONEY EVOLUTION. And this evolution starts again from nothing, with a commodity.

A substantial example of joining two markets together

Imputation for the year	Market No. 1	Market No. 2
	Leading market	Backward market
Conventional name of the markets	America	Ethiopia
The same number of workers	100.000 workers	100.000 workers
Wheat produced	100 million tons	10 million tons
The same labour hours	8 hours	
Working days per year	250 days	
Labour hours per year	250*8=2000 hours	
World market price	200 dollars per ton	
Gold price per gram	40 dollars per gram	
Price of a ton of wheat in gold	200/40= 5 gram per ton	
Fundamental constants of value		
$p_1 = \frac{5 * 10^8}{10^5 * 2000} = 2.5 \frac{\text{gram of gold}}{\text{labour hour}}$		$p_2 = 0.25 \frac{\text{gram of gold}}{\text{labour hour}}$
UNITED MARKET: Market No.1 U Market No.2		
It is a new state America + Ethiopia		
The fundamental constant of the united market is:		
$p_3 = \frac{5 * (10^8 + 10^7)}{2 * 10^5 * 2000} = 1.375 \frac{\text{gram of gold}}{\text{labour hour}}$		

The united market is a new America-Ethiopia state with common laws. If there is no unified state, then there is no united market. Fundamental constant of the united market p_3 regulates the market in the new country of America-Ethiopia.

There is no world money yet, they were not born. World money will be born only when the whole world is united into one state.

What is the difference between advanced capitalism and a society of small-scale producers?

Answer. The society of small-scale producers is the ideal political economic gas. It is governed by one fundamental constant, the value constant.

The economy of advanced capitalism is more complex. There are two fundamental constants: the value constant and the rate of profit.

§ 8.5. The theory of thing VALUE fetishism No.1 and the fundamental constant of value

The fundamental constant of value of the united market is as follows:

$$p_3 = \frac{\text{american bread}(100) + \text{ethiopian bread}(10) \text{ in gold prices}}{(100000 \text{ Americans} + 100000 \text{ Ethiopians})2000} =$$

$$= \frac{\text{INEQUALITY}}{\text{EQUALITY}}$$

There is the communist formula of the equality of men in the denominator:

$$100000 \text{ Americans} + 100000 \text{ Ethiopians} = 200000 \text{ people}$$

There is also inequality between Americans and Ethiopians expressed in the numerator. One American produces as much bread as ten Ethiopians.

THE FUNDAMENTAL CONSTANT OF VALUE is the result of resolving the CONTRADICTION between the capitalist principle of INEQUALITY and the communist principle of EQUALITY.

And where do things stand regarding unfortunate economist-physicists from the bourgeoisie? The idea of inequality is deep in heads of all bourgeois theoreticians. That is why they are indignant with the communist formula:

$$100000 \text{ Americans} + 100000 \text{ Ethiopians} = 200000 \text{ people}$$

They say, “What are you doing, man? One unfortunate Ethiopian is not to be compared with the great American! Who is he and who is American! No way! In mathematics, $1+1=2$. But political economy does not work in this way. One American is worth 10 Ethiopians and therefore: 1 American + 10 Ethiopians = 2 Americans”. In other words, they use INEQUALITY TWICE!

On the contrary, they believe that the idea of EQUALITY is expressed in the numerator. The idea of domination of equality on the market sinks into their mind. So, all bourgeois theoreticians use the formula: $\frac{\text{INEQUALITY}}{\text{INEQUALITY}}$. They count inequality twice.

Through this example we see that Marx’s law of pair inversion is correct. A thing fetishist considers equality to be inequality, and inequality to be equality!

For bourgeois economist-physicists, the fundamental constant of the united market is:

$$p = \frac{\text{american bread}(100) + \text{ethiopian bread}(10) \text{ in gold prices}}{(100000 \text{ Americans} + \frac{100000 \text{ Ethiopians}}{10})2000} = 2.295$$

As we can see, the fundamental constant of economist-physicists is overestimated and incorrect. This means that all the scientific works of bourgeois economist-physicists are misleading.

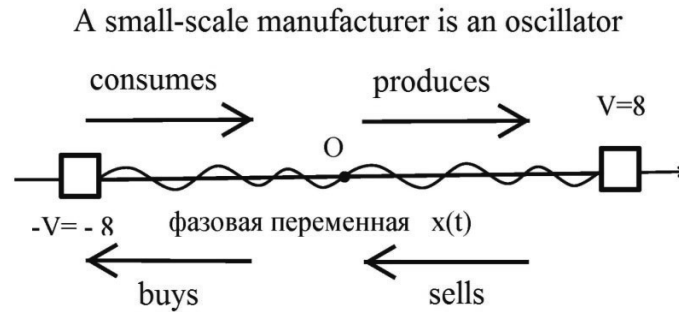
Theorem. The political economy fetish lens is an optical lens. It is not able to turn over some images without turning over others. It turns over 100% of the images.

Consequence. Among thousands of works of bourgeois economist-physicists, it is impossible to find one true work.

§ 8.6. Small-scale producer is an oscillator

Quantity of labour V is the phase variable. We assume that a small-scale producer works eight hours a day, and we choose a new letter $x(t)$, then the oscillation period of the small-scale producer is $T = 8$ hours. The circular frequency is equal to $\omega = \frac{2\pi}{T}$. The equation of small-scale producer's oscillations is:

$$x(t) = Nk\sin(\omega t)$$



Discussion. The circular process is as follows: small-scale producer can

PRODUCE → SELL → BUY → CONSUME

and then he returns to zero. According to given phase and direction of the velocity vector, we can unambiguously reconstruct what a person is doing now.

Example. If $x = -4$, $x' > 0$ at some point in time, then the small-scale producer has begun to consume the purchased commodity and has already consumed half of the purchased commodity. In this way, negative coordinates can be introduced into political economy.

The second version of the oscillator is as follows:

$$x(t) = V\sin(\omega t)$$

Theorem. The rate of consumption and the rate of production across the country are equal in modulus.

Proof. If the rate of production were systematically higher than the rate of consumption, then there would be an overstocking, and if it were less, then there would be a famine on a social scale. Consumption is understood as the consumption of leather purchased on the market by a shoemaker. This theorem allows introducing negative numbers and a coordinate system.

Why did we introduce negative numbers and a coordinate system?

We want to repeat Maxwell's path. He introduced a normal velocity distribution. Maxwell derived the energy distribution and the ideal gas law from the normal distribution. We would like to do the same.

§ 8.7. The main curse of political economy: TIME is MULTIDIMENSIONAL

Hegel said: "To appropriate a person's labour time means to appropriate his ESSENCE".

According to Hegel the capitalist appropriates the **labour** time of the proletarian. Hegel identifies a PERSON with his LABOUR TIME. According to Hegel, the capitalist also takes the soul of the proletarian. But person is a very complex being. So a person's TIME is also a very complex category. Therefore, this is the main curse of political economy: Time is multidimensional.

Perhaps, a small-scale producer is not one single oscillator, but two?

Can a quantum model of Marx's CAPITAL be created?

Is it possible to create a mathematical model of the political economy of communism? Is it possible to make a model of a man of communism? Yes, it is.

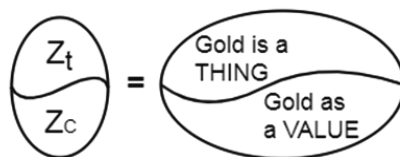
Engels: "MAN is an ELECTRON OF COMMUNISM". The political economy of communism will be quantum. A man is to be modeled by an electron in this model. In the books by the authors, the initial stage of such a model is made.

There is a natural quantization in economics. Coins with the face value of less than one cent do not make economic sense. The production expenditures of small coins are greater than the economic effect of using them. The value of such a coin is the new Schrödinger constant.

Chapter IX. Formalization of Marx's CAPITAL with the help of MATHEMATIZED HEGEL'S DIALECTICS

§ 9.1. The logical (Hegelian) scheme of the origin of money discovered by Marx.

Dialectical pair:



Hegel's evolutionary theorem.

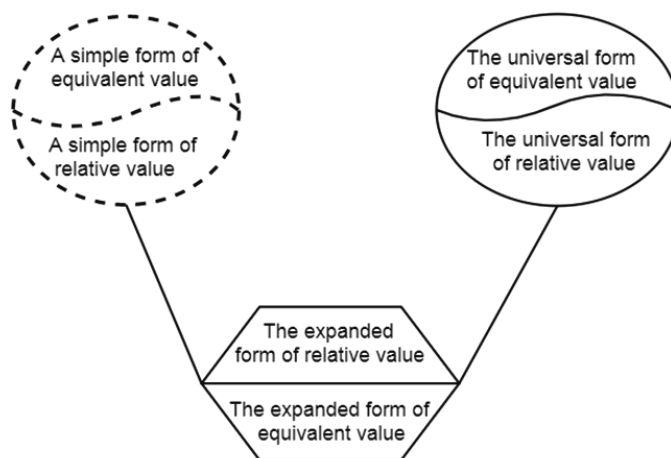
Theorem. The origin of a category outside the TRIAD is impossible. Any category goes through the TRIAD way.

Marx is a logician and he discovered the LOGICAL EVOLUTION of CATEGORY "MONEY" (NOT MONEY itself).

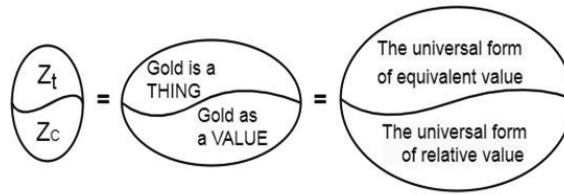
Although the LOGICAL is the ESSENCE of the HISTORICAL, these categories may not coincide. The LOGICAL TIME may not coincide with the historical time. Moreover, the logical time can be perpendicular to the historical time.

There are still tribes living on the planet that are in a primitive state. But Hegel and Marx are not interested in them. The categories of Hegel and Marx have their own evolution – it is the logical evolution of social categories. The history of the origin of real money is studied by historians. And Marx is not a historian, he is a logician.

In this paragraph, we intend to show drawings of dialectical pairs and place in them all the categories of the logical evolution of Marx's logical-money categories.



In the course of the Hegelian logical evolution of categories, real VALUE and its shell GOLD-THING are born. We get:



The Marx's evolution of money has already been completed in equilibrium situations. The MONEY category has already been born and grown. Therefore, there is no need to consider the Marx's evolution of money in equilibrium systems. The old money dies and a new evolution of new money begins in transition processes. Therefore, it is possible to use the presented evolution of Marx's money categories in transitional processes. But it is not necessary to add it into the calculation schemes. This is a methodological theorem.

We know that Marx's political economy is the science of the money man, the science of the American. So Marx models the feelings of a money man. We have:

$$\left[\begin{array}{l} \text{first smale – scale producer's feelings: } (greed_1, gluttony_1) \\ \text{second smale – scale producer's feelings: } (greed_2, gluttony_2) \end{array} \right]$$

Marx is primarily interested in VALUE. Therefore, Marx uses only two feelings of the money man in his scheme:

$$(greed_1, greed_2)$$

And this is the right decision, because the evolution of money is the evolution of greed. The birth of the USE VALUE category is described by the evolution of the pair:

$$(gluttony_1, gluttony_2)$$

And now every reader is able to draw Hegel's evolutionary triad for the use value category.

Is it possible to put all the categories of Marx's Capital in one huge binary graph? Will all Marx's theorems be easily deduced from this graph?

<i>E</i>	<i>M</i>	<i>D</i>
Embryonic dialectics	Metaphysics	Dialectics
Categories		
A_E, B_E – embryonic	A_M, B_M – metaphysical	A_D, B_D – dialectical
Vague categories, like clouds in the sky	Rigid, immutable categories	Flexible. They are constantly changing into each other: $A_D \rightarrow B_D, B_D \rightarrow A_D$
Karl Marx's law of pair inversion		
A pair is inverted:		
1. The first time during the transition from the embryonic world to the metaphysical world; 2. The second time during the transition from the metaphysical world to the dialectical world; 3. An infinite number of times in the world of dialectics.		
A pair: Woman-Man in political economy (not biology). Hegel's evolutionary triad		

<p>The diagram illustrates a process of transition. On the left, a dashed circle contains 'woman_E' and 'man_E', representing a primitive sexual commune. An arrow points from this circle to a hexagon in the center. The hexagon is split horizontally, with 'man_M' in the top half and 'woman_M' in the bottom half, representing Capitalism. Another arrow points from the hexagon to a circle on the right. This circle is also split horizontally, with 'woman_D' in the top half and 'man_D' in the bottom half, representing Communism.</p>		
A tribe is a primitive sexual commune	Capitalism	Communism is a global tribe
	The contradictions between men and women are class-based.	The contradictions between men and women are not class-based; they are dialectical. Dialectical contradictions are resolved in two ways: with the help of non-class struggle and with the help of love.
There are endless dialectical transitions under communism: $woman \rightarrow man, man \rightarrow woman.$		
Here are descriptions of these transitions from point of view of psychology (not in political economy):		
1) The women of communism become strong as men. They are in no way inferior to men. It is a $woman \rightarrow man$ transition.		
2) The woman of communism says: "My man is gentle as a girl in bed". It is $man \rightarrow woman$ transition. Under communism, the transitions $woman \rightarrow man, man \rightarrow woman$ are not literal, but beautiful and imaginative.		
The theory of pair degeneration by authors		
The authors created a theory of pair degeneration. It answers the question: What will happen to a metaphysical pair if it does not pass into a dialectical pair in time?		
First answer. The pair will begin endless metaphysical transitions (not dialectical). And women and men will literally pass into each other.		
This theory explains huge cases of homosexuality and mass gender transitioning in the United States. Men cut off their genitals and turn into women, but into degenerate women.		
The second answer. The law of time reversal is valid at degeneration. Time is moving "OSTENSIBLY" backwards. Any dialectical pair appears from an egg, by splitting the one. The backward evolution existing in the USA will lead to the fact that there will be one and only degenerate "IT" GENDER. This means that the United States rewound 500 million years and people turned into asexual political economic amoebas.		

There is the full exposition of the laws of dialectics in the second book of the authors "Mathematized Hegel's dialectics".

Why did Hegel call his dialectics "ABSOLUTE IDEA"?

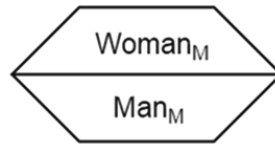
The answer is that the laws of dialectics have no exceptions. In particular, the evolutionary path, the path of the triad passes through all categories of mathematics, physics, chemistry and linguistics.

The theory of degeneration is true for all categories of all sciences. The law of inversion is also true for all sciences.

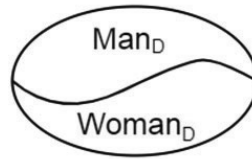
Therefore, Hegel's ABSOLUTE IDEA DIALECTICS is the absolute invincible weapon of mankind. There is nothing more than this weapon and there will be nothing more. If young people learn Hegel's dialectic, then a new world will be built quickly and without civil wars.

Hegel's dialectics can help to solve problems of physics, mathematics, and chemistry. And communism can be built. Hegel's dialectics is a universal weapon of mankind.

a man and a woman form a dead metaphysical pair in America and the West:



In Russia, a man and a woman form a semi-dialectical, semi-metaphysical pair. This follows from Lenin's theory of the duality of socialism. Under communism, man and woman pair would become a dialectical pair:



§ 9.2 The theory of duality. There are FOUR laws of SUPPLY and FOUR laws of DEMAND in the eight-dimensional space of categories.

THE DUALITY OF the political economic ideal gas law	
$Z = pV_C = Nk\theta$	
pV_C	$Nk\theta$
People	Commodities
The total political economic energy of people.	The total political economic value of commodities. The sum of the prices of all commodities in gold.
$pV_C = pV_1 + pV_2 + \dots + pV_{M-1} + pV_M$	$k\theta_1 + k\theta_2 + \dots + k\theta_{N-1} + k\theta_N$
"M" is amount of people!	"N" is amount of commodities!
SUPPLY	DEMAND
Unambiguous definition of the values of the categories DEMAND and SUPPLY	
A quantity of labour V_C is the total supply in LABOUR VALUES. Workers put their labour hours up for sale in the form of labour values.	Nk value is the market demand in CONSUMER MASS.
pV_C value is the total SUPPLY in abstract VALUES.	$Nk\theta$ value is the total demand in abstract values.
There is always a duality between people and commodities!	

However, there will be four laws of supply and four laws of demand in the eight-dimensional space of categories Ω_8 .

The law of supply No.1. We assume that we sell commodity mass on the market.

$$\begin{bmatrix} M \\ N \\ V_t \end{bmatrix}$$

This option is described by a thermodynamic system with a variable mass or with a variable number of molecules.

The law of supply No.2. We assume that we sell thermal mass, the total heat capacity of the market:

$$\begin{bmatrix} Mc_V \\ Nk \\ C \end{bmatrix}$$

The law of supply No.3. We assume that we sell the total labour value V_C .

The law of supply No.4. We assume that we sell the total use value, entropy S .

It is impossible to unambiguously define the laws of supply and the laws of demand. It all depends on the direction of the transition processes. Here is an example.

Example No.1. There is a barter market (not money market) with no money; money hasn't been born yet.

Two small-scale producer barter. The first small-scale producer exchanges the sausage, and the second one exchanges sour cream. The sausage as a commodity has two states. The first state is zero. And the sausage has no use value for the first small-scale producer. He produced it only for sale. The sausage has a use value only of the buyer.

Consequence. Truth is not absolute. The truth depends on the side from which you look. What should we do then? We should consider the sausage as a two-dimensional vector and keep track of both coordinates of this vector.

Lemma. It is impossible to give an absolute and unambiguous definition of the law of SUPPLY and the law of DEMAND within the ideal gas model.

Lemma. A thermodynamic process is a reversible process if entropy (use value of the process) is zero.

Consequence. Isothermal and adiabatic processes are reversible.

Lemma. The law of supply and demand can be reversed for reversible processes.

Consequence. Isothermal and adiabatic processes can be interpreted as a demonstration of both the law of SUPPLY and the law of DEMAND.

The law of supply and the law of demand lose their significance with the ideal gas law. After all, political economic thermodynamics allows us to answer any question.

§ 9.3. Marx's CAPITAL is the science of a SIXTEEN-DIMENSIONAL MAN

Where is a man in political economy? What place does a man occupy on the main political economic graph? The category $\overrightarrow{\text{LABOUR}}$ can be identified with a man. But $\overrightarrow{\text{COMMODITY}}$ is what a man produces. Therefore, the category $\overrightarrow{\text{COMMODITY}}$ can also be identified with a man. So, the main political economic graph $\overrightarrow{\text{LABOUR}} \cup \overrightarrow{\text{COMMODITY}}$ is the political economic man and the political economy of Marx is the science of the sixteen-dimensional man.

§ 9.4. The fundamental value constant p_C is the soul of a man in a golden shell, in a golden prison

The main political economy graph is built according to the degree of increasing abstraction:

$$M, C, \theta_B, p_B, V_C, S, V_C, \theta_C, p_C$$

The mass of commodities M is tonnes of wheat or meters of fabric. It is close to hands of a man. Then we get further from the hands of a man and come to the soul of a man.

Definition. The SOUL of a man is PERFECT.

Theorem. The fundamental constant of value p_C is the soul of a man in a golden shell, in a golden prison.

In Russia: "What kind of person are you?"

In America: "How much do you cost?"

You are how much values you have, and what your fundamental constant of value is. A woman of pleasure costs 30 dollars; it is half a gram of gold. She is nobody in America; she is not even a human.

But if there is a businessman, he is like a ton of gold. In America, being human means being a piece of gold.

There is a wonderful Soviet film "Shadow" (1971) with Oleg Dal. This film can help to show the essence of Marx's CAPITAL. And those who want to study Marx's CAPITAL should definitely watch this film. The idea of the film is taken from Marx.

The plot is as follows: the film tells about the confrontation between a smart and kind scientist and his shadow. Scientist Christian-Theodore comes to a magical land. He falls in love with the frivolous princess Louise. He asks his shadow to find her. The shadow, leaving its master, deceives him and becomes a man named Theodore-Christian.

The scientist gets sick. Annuanciata, hotel keeper's daughter, nurses him. SHADOW-Theodore persuades Louise to marry him.

Then SHADOW-Theodore becomes a king. The scientist is arrested and brought to Theodore. He offers the scientist to become his shadow.

An indignant Christian tries to prove to everyone that the new king is just his own shadow. But they do not believe him, even when Theodore, obeying the words of the spell, returns to his original appearance.

When SHADOW-Theodore returns to the human body, he orders the scientist's head to be cut off, but he also loses the head.

All the ministers, frightened by the headless ruler, remember the source of living water. Annuanciata revives the scientist.

A frightened shadow asks the scientist to stay. The scientist refuses and leaves the kingdom with his beloved Annuanciata.

Karl Marx's theory of commodity-money fetishism

Money was conceived as a human assistance. It helped to make the exchange and develop production. Money was intermediary between people. It was an ordinary shell, or simple piece of paper. But time went on, and money has absorbed the greedy souls of people. It came to life, put on a tailcoat and became a master. It took everything from people: wives, houses, names, beautiful voices.

And people died. They are lifeless creatures now. They are the living dead. They are a labour power: a freak with no voice, no name, and no brains. Now dead people are intermediaries between LIVING MONEY.

Why do not people sing? People do not sing, because MONEY is singing now.

From the "Octopus" movie: "When money sings, the muse is silent".

The Muses of ancient Greece.

There were nine Greek Muses in the classical version: Calliope, Melpomene, Clio, Thalia, Euterpe, Polyhymnia, Erato, Terpsichore, and Urania.

Capital has taken away even the goddesses' voices. They cannot sing under capitalism. It is impossible to sing without a voice.

The great idea of Marx: "People should arrogate to themselves PRODUCTION RELATIONS"

What does Marx mean?

Nowadays, most young people are musical monkeys. They have no sense of pitch and musical consciousness. Monkeys come to the elite begging for autographs. Monkeys fulfill any wishes of their idols.

Under communism, people will recover their voices, and they will be able to sing. Under communism, all people will get a musical education. All 100% of people will get a sense of pitch and musical consciousness. All people will become musical people. Everyone will be able to sing, dance, and compose music. There will be no musical monkeys under communism. And the Muse goddesses will return to people.

Marx tells people: "Get your beautiful voices back, get your mind back".

Results. The beautiful Marx's theory of commodity-money fetishism is described by the fundamental constant of value p_C . The fundamental value constant p_C is a piece of gold that contains living greedy souls of people. That is why this piece of gold came to life, and people died. It is impossible to free greedy souls. Only loving hearts can be set free.

In the film "Shadow", the dead scientist was revived by a loving heart and LIVING WATER. There are LIVING MONEY and dead people on the planet. However, we can revive people, as there is the living water of communism. Everything is true in Russian legends.

This is Marx, who prepared the LIVING WATER of humankind. His party nickname is "ZEUS OF THE REVOLUTION". And those who love all of humankind need only drink the living water of communism.

The authors changed the name of Marx's theory. Now it is called the theory of thing value fetishism.

The biggest difficulty in political economy is the CONSTANT BIFURCATION

Excerpts from the authors' book "Mathematized Hegel's dialectics".

Ideology and prayers of the splinter.

"Bifurcate at every step. Take a step and bifurcate. Split the categories at every step: "Split, split, split". But splitting a category is harder than splitting an atom. And if the category is split, then the atom will split". And the greatest splitter is Hegel.

Marx's theory is the science of MAN, not of COMMODITIES or CAPITAL. Marx studies MONEY only because the average American has a monetary soul. We have to study MONEY to study the soul of an American. An American can say to a girl: "You look like a million dollars". He says to the goddess: "You are dirty, stinking money".

But how can we do this so the theory gives us all theorems as theorems about a man? Should we split categories and bifurcate graphs?

§ 9.5. The problem of constructing a model dual to the ideal gas law

Thermodynamics with a variable number of particles can describe the flow of commodities across a border. That is right. However commodities and money form the ELECTRON-HOLE system. And if the commodities cross the border, then a HOLE is formed in its place. This hole is covered by MONEY. It is unknown whether it is possible to model such a phenomenon.

The theory of thing fetishism has a formal basis. According to this theory, the WORKER can be considered a DEAD commodity-molecule. And MONEY can be considered LIVING PEOPLE. So we can construct a dual equation to the ideal gas law.

The first attempt: we convert thing categories into value categories and vice versa.

We have:

$$p_C V_C = N_t k_t \theta_C$$

We get:

$$p_t V_t = N_C k_C \theta_t$$

We transform the equation:

$$\begin{array}{l} \theta_t (N_C k_C) = V_t p_t \\ \left[\begin{array}{l} \theta_t - \text{new pressure} \\ (N_C k_C) - \text{new volume} \\ V_t - \text{new mass} \\ p_t - \text{new temperature} \end{array} \right. \end{array}$$

There is a system of equations:

$$\begin{cases} p_C V_C = N_t k_t \theta_C \\ \theta_t (N_C k_C) = V_t p_t \end{cases}$$

It is unknown whether the equation and the whole system have any sense.

The second attempt: the main political economic graph has three axial symmetries.

We reflect the graph relative to the largest central axis of symmetry. We get:

$$(M \ C \ \theta_t \ p_t \ V_C \ S \ \theta_C \ p_C) \rightarrow (p_C \ \theta_C \ S \ V_C \ p_t \ \theta_t \ C \ M)$$

We reflect the graph with relative to the two middle axes of symmetry. We get:

$$(p_C \ \theta_C \ S \ V_C \ p_t \ \theta_t \ C \ M) \rightarrow (V_C \ S \ \theta_C \ p_C \ M \ C \ \theta_t \ p_t)$$

We reflect the graph with relative to the four small axes of symmetry. We get:

$$(V_C \ S \ \theta_C \ p_C \ M \ C \ \theta_t \ p_t) \rightarrow (S \ V_C \ p_C \ \theta_C \ C \ M \ p_t \ \theta_t)$$

Result:

$$(S \ V_C \ p_C \ \theta_C \ C \ M \ p_B \ \theta_B)$$

We replace commodities with people. The molecules are people. We get the table:

No.	Categories		
	new		old
1.	S	New mass of people	M
2.	V_C	New consumer mass. New total heat capacity of people	C
3.	p_C	New thing temperature	θ_t
4.	θ_C	New thing pressure	p_t
5.	C	New labour value. New volume of commodity mass	V_C
6.	M	New entropy. The new use value of people	S
7.	p_t	New temperature. New value of people, not commodities	θ_C
8.	θ_t	New pressure. New fundamental constant for a commodities (not people)	p_C

We change the specific heat according to the following rule:

$$c_V \rightarrow v_C$$

There is a new ideal gas law:

$$\theta_B C = S v_C p_t$$

We have the system:

$$\begin{cases} p_C V_C = M c_V \theta \\ \theta_t C = S v_C p_t \end{cases}$$

It is unknown whether the system has any economic sense.

The law of the UNITY OF THE WORLD. Lenin's favorite law	
Maxwell's equations	Marx's political economy
$\begin{cases} \textit{Theory of electricity} \\ \textit{Theory of magnetism} \end{cases}$	$\begin{cases} p_C V_C = M c_V \theta \\ \theta_B C = S v_C p_B \end{cases}$

If Lenin is right and the law of the unity of the world is a universal law, then there must be a system of dual equations in political economy. The market should be modeled by two vessels with different molecules. They must be connected by matching conditions with thermostats and heaters.

§ 9.6. Marx's theory of labour productivity in thermodynamic form

Marx's theory is cited in the wonderful book of Afanasyev Vladilen Sergeevich:

“The great discovery of Karl Marx. Methodological work of the dual nature of labour”.

The precise definitions of labour productivity will be formulated in an eight-dimensional category space. And here are neither precise nor logical definitions.

Definition. The productivity of concrete labour is called

$$\begin{cases} \frac{Nk}{V} & \text{in equilibrium process} \\ \frac{S}{V} & \text{in transition process} \end{cases}$$

Consequence. The productivity of concrete labour increases if,

$$d \frac{Nk}{V} > 0 \text{ or } d \frac{S}{V} > 0$$

Definition. The productivity of abstract labour is called the fundamental constant p .

Consequence. The productivity of abstract labour increases if $dp > 0$.

Marx's theory of labour productivity in a two-dimensional world of categories:

$$\begin{aligned} \overrightarrow{\text{LABOUR}} &= \left| \begin{array}{l} \text{concrete labour} \\ \text{abstract labour} \end{array} \right| \Rightarrow \\ \Rightarrow \text{Labour productivity} &= \left| \begin{array}{l} \text{concrete labour productivity} \\ \text{abstract labour productivity} \end{array} \right| = \\ &= \left| \begin{array}{l} \text{PRODUCTIVITY OF LABOUR} \\ \text{INTENSITY OF LABOUR} \end{array} \right| \end{aligned}$$

Marx called the PRODUCTIVITY OF LABOUR the productivity of concrete labour. And he called the productivity of abstract labour the INTENSITY OF LABOUR.

An increase of labour productivity due to a new technology, a good organization of labour, and a rationalization of labour is a PRODUCTIVITY OF LABOUR. It is related only to concrete labour.

Lenin said: "The intensity of work is the intensity of labour per unit of time".

The authors want to call the INTENSITY of LABOUR a measure of the labour exploitation. But neither Marx nor Lenin made such a conclusion. Probably, the INTENSITY of LABOUR has a slightly different physical sense. It is much better to follow the teachers of humankind in matters of the economic sense of categories.

INTENSITY OF LABOUR is a measure of abstract labour per unit of time.

Lemma. The theorems of political economy do not exist outside of thermodynamic processes.

Marx describes various thermodynamic processes with his theorems.

There is Marx's theorem of the productivity of concrete labour.

This thermodynamic process is possible when:

$$\left[\begin{array}{l} \text{PRODUCTIVITY OF LABOUR increases} \\ \text{INTENSITY OF LABOUR is constant} \end{array} \right] \Rightarrow$$

$$\Rightarrow \left[\begin{array}{l} \text{The sum of consumer values increases} \\ \text{The total money value does not change} \\ \text{The unit price of consumer value falls} \\ \text{The fundamental constant of VALUE does not change} \end{array} \right]$$

There is Marx's theorem of the productivity of abstract labour.

This thermodynamic process is possible when:

[PRODUCTIVITY OF LABOUR is constant \Rightarrow
INTENSITY OF LABOUR increase

[The sum of consumer values increases, but in direct proportion
to the increase of VALUE
Therefore the price of a unit of consumer value θ does not change
The total money value is constant
The total VALUE increases

§ 9.7. Marx's theory of the productivity of concrete labour (POWER OF LABOUR) is modeled by an isobaric-isochoric process with a variable number of particles

We have:

$$\left[\begin{array}{l} pV = Nk\theta \\ p = \text{const} = p_1 \\ V = \text{const} = V_1 \\ N - \text{variable} \\ \mu - \text{chemical potential} \\ U = \theta dS - pdV + \mu N \\ \text{POWER OF LABOR increases:} \left[\begin{array}{l} d \frac{Nk}{V} > 0 \\ d \frac{S}{V} > 0 \end{array} \right. \end{array} \right.$$

The chemical potential μ is a tax.

The expected results according to Marx's theory should be as follows:

- 1) The fundamental constant of value p is constant by condition.
- 2) Entropy (the total use value) increases.
- 3) The price θ decreases.
- 4) The total value is constant.
- 5) Should consumer mass (the total heat capacity) also increase?

Option No.1.

a) Isobaric-isochoric process with a variable number of particles is possible in physics.

b) It adequately reflects Marx's theory.

Then such a process can be modeled as follows:

- 1) There is no thermostat-world market.
- 2) There is an accumulator of commodities.
- 3) There can be several chemical potentials regulating the transfer of commodities to the accumulator and vice versa.

A large accumulator with a set price β
Commodities can be exported in both directions. The earned money can be imported and exported.
When $\theta < \beta$
The price of the commodity on the market is less than the price of the commodity in the ac-

cumulator.			
Market Sellers	Market buyers	Accumulator sellers	Accumulator buyers
They take the commodities to the accumulator and pay the exit tax μ	They do not go to the accumulator. There is no sense.	They do not go to the accumulator. There is no sense.	They go out of the accumulator into the market.
They sell commodities in the accumulator and bring the money home.			They take the commodities to the accumulator and pay the exit tax μ
When $\theta > \beta$			
The price of the commodity on the market is more than the price of the commodity in the accumulator.			
They do not go out.	They go out of the market into the accumulator.	They go out of the accumulator into the market.	They do not go out.
	They buy the commodities in the accumulator, pay the tax to the accumulator and take the commodities home.	They buy the commodities in the market, pay the tax to the market and take the commodities to the accumulator.	

It is possible to consider cases when the taxes are different or when commodities can be exported, but money cannot be exported. There are many options. It means that political economic thermodynamics is more complicated than physical thermodynamics. We have given one more argument in favor of the existence of a system of the ideal gas law in political economy.

In the isobaric-isochoric process, the tax must be set as a function $\mu = \mu(p, V)$.

§ 9.8. Marx's theory of the productivity of abstract labour (LABOUR INTENSITY is modeled by an isochoric-isothermal process with a variable number of particles)

We have:

$$\left[\begin{array}{l} pV = Nk\theta \\ \theta = \text{const} = \theta_1 \\ V = \text{const} = V_1 \\ N - \text{variable} \\ \mu - \text{chemical potential} \\ U = \theta dS - pdV + \mu N \\ \text{intensity of labour: } dp > 0 \end{array} \right.$$

The chemical potential μ is a tax.

The expected results according to Marx's theory should be as follows:

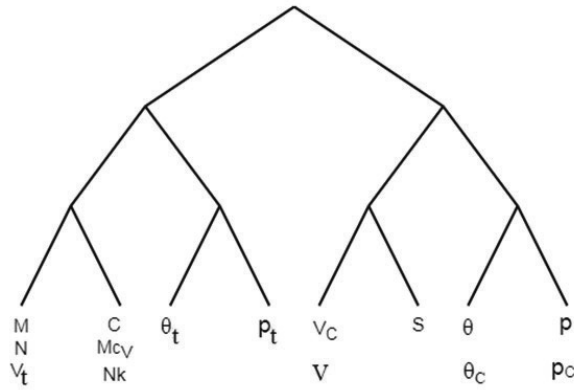
- 1) The price θ is constant by condition.
- 2) Entropy (the total use value) increases.
- 3) The fundamental value constant p increases.
- 4) The total value increases.

5) Should consumer mass (the total heat capacity) also increase?

In the isobaric-isothermal process, taxes as a function $\mu = \mu(p, \theta)$ must be set.

§ 9.9. Marx's theory of labour productivity in the eight-dimensional space of categories Ω_8 .

The half of the main political economic graph has the form:



There should be four types of labour productivity in this space:

TWO PRODUCTIVITY OF SPECIFIC LABOUR

Productivity of specific labour in variable mass models:

$$\left[\begin{array}{l} \frac{\partial C}{\partial M} \text{ or } \frac{\partial C}{\partial N} \\ \frac{\partial S}{\partial V_c} \end{array} \right]$$

Variable C is the total heat capacity of the market, the total CONSUMER MASS, not the value. It can increase even when the commodity mass M is constant. If $\frac{\partial C}{\partial M} > 0$, then the total consumer mass has increased.

Entropy S is the total USE VALUE. If $\frac{\partial S}{\partial V_c} > 0$, then the total use value has increased.

TWO PRODUCTIVITY OF ABSTRACT LABOUR

The productivity of abstract labour:

$$\left[\begin{array}{l} \frac{\partial p_t}{\partial \theta_t} \\ \frac{\partial p}{\partial V_c} \end{array} \right]$$

Variable p_t is a gold bar, which is the carrier of the value $p = p_c$.

It is still unclear how the two values p_B, p_C differ in the calculations. The variable θ_B is a gold bar which is the carrier of the money value $\theta = \theta_C$. It is still unclear how the two values θ_B, θ_C differ in the calculations.

Probably the model needs to be expanded. Gold producers should be introduced into the model as a separate class. There should be the exchange of gold for commodities. Then probably these variables make sense.

If $\frac{\partial p}{\partial v_c} > 0$ then the fundamental value constant increases.

Why did we choose these four partial derivatives as different types of labour productivity? Why not others? It is because Marx's productivity of concrete labour is precisely identified.

The value $\frac{\partial S}{\partial v_c}$ is the productivity of a concrete labour. If $\frac{\partial S}{\partial v_c} > 0$, then the use value increases. It means that the value $\frac{\partial S}{\partial v_c}$ is the POWER of LABOUR according to Marx.

Other values $\frac{\partial C}{\partial M}, \frac{\partial p_B}{\partial \theta_B}, \frac{\partial p_C}{\partial \theta_C}$ are determined in accordance with the theory of duality.

Formally, all these values are different types of labour productivity:

$$\left(\frac{\partial M}{\partial V} \quad \frac{\partial C}{\partial V} \quad \frac{\partial \theta_B}{\partial V} \quad \frac{\partial p_B}{\partial V} \quad \frac{\partial V}{\partial V} = 1 \quad \frac{\partial S}{\partial V} \quad \frac{\partial \theta_C}{\partial V} \quad \frac{\partial p_C}{\partial V} \right)$$

But there are seven of them, since $\frac{\partial V}{\partial V} = 1$. And there can be only eight or four values in dialectics. Therefore, we choose the number four.

Lemma. No theorems are possible outside of specific thermodynamic processes.

What should we take for labour productivity? Another fantastic version.

We take the entropy for the time of the equilibrium process. Then the category $\frac{\partial v_c}{\partial S}$ can act as a measure of labour productivity.

Reasons for the existence of contradictions in the political economy of Marx

1. It is necessary to choose an eight-dimensional category space Ω_8 . The whole theory should be presented only in this eight-dimensional category space. Otherwise, there will be contradictions.
2. The maximum dimension of the space of Marx's categories is unknown. If it is equal to 16, then there will be unsolvable problems in the category space Ω_8 .
3. Only the theory of models for Marx's CAPITAL will solve all the problems.

Chapter X. The MAIN POLITICAL ECONOMIC GRAPH: $\overline{LABOUR} \cup \overline{COMMODITY}$. We need to deduce ALL categories.

§ 10.1. The plan for further modeling of Marx's CAPITAL

1. It is necessary to create a special LOGICAL LANGUAGE for Marx's Capital.

We need an alphabet and output rules. It is necessary to create a special dictionary with a minimum set of categories and remove duplication.

Example. If the categories EXCHANGE and MARKET duplicate each other, then one of these categories should be discarded.

2. It is necessary to determine the dimensions of the categories. We need to remove the evolution of Marx's money from the model and point out that old money dies and new money is born in the transition process.

3. Banks need to be modeled.

4. Classes need to be modeled.

5. It is necessary to strictly follow Hegel's dialectic and divide all categories into dialectical pairs. The same category can only be included in one dialectical pair. This is the Hegelian LAW OF THE UNIQUENESS OF A PAIR. If, for some reason, one category is included in two pairs, it means that they are close, but not identical categories, and then they need to be distinguished.

6. It is necessary to define the RATE OF PROFIT as the second FUNDAMENTAL CONSTANT.

7. MARX'S CALCULATION SCHEMES need to be modeled. Marx's calculation schemes are cosmological equations. They describe the movement of the entire world economy.

8. It is necessary to create a quantum model of Marx's Capital!

9. The Marx's Capital should be presented in the form of a rigorous mathematical theory with axioms and theorems.

10. Example. Definition of private property.

Definition. PRIVATE PROPERTY IS THE PROPERTY OF ONE PERSON.

Shares are not private property. Shares are collective property, the property of a collective of capitalists. So, shares are a collective capitalist form of ownership.

Consequence. The socialist general secretary is also the owner of semi-private property.

THE DIFFERENCE BETWEEN CAPITALISM AND SMALL-SCALE PRODUCTION

Small-scale production is regulated by one fundamental constant: the fundamental constant of value p . It is an analogue of pressure.

Capitalist production is regulated by two fundamental constants: the fundamental constant of value and the RATE OF PROFIT. And it is necessary to define the RATE OF PROFIT as the second FUNDAMENTAL CONSTANT in the mathematical model of capitalist production and find its analogue in physics.

Since LABOUR POWER became a COMMODITY under capitalism, a WORKER must be considered the molecule of the market.

Political economy is a cursed science. Everything is not what it seems. Fetishism reverses causes and consequences. You never know if you are standing normally or upside down.

On the example of our model of thirty pages of Marx's CAPITAL, it is clear that THING FETESHISM is everywhere. But there is a solution. We need to create a THEORY OF MODELS for Marx's Capital. There will be many mistakes without THEORY OF MODELS. There is another value: the organic structure of capital. It can also be considered a constant in some processes.

MARX'S POLITICAL ECONOMY AS A QUANTUM POLITICAL ECONOMY

Each thermodynamics has its own statistical physics. Therefore, there must also be a quantum model of Marx's CAPITAL. THE LAW OF THE UNITY OF THE WORLD. The philosophical justification for the existence of Marx's quantum model of Capital is the theorem of the Great Engels. The theorem. Engels is in our editorial office. Dialectics of nature:

“MAN IS A STATISTICAL ATOM OF HISTORY”.

Here we retell Engels' words. Engels says that people bump into each other like atoms. And as a result of the action of statistical laws, a VECTOR OF HISTORY is born, which no longer depends on people. Rome died after completing a historic mission. Feudalism came and left. Capitalism came. Then socialism came. Socialism has played its outstanding historical role and died of old age. The era of socialism has gone down in history. Humankind has reached the finish line of history. THERE IS ONLY PURE COMMUNISM AHEAD.

COMMUNISM WILL BE BUILT, BYPASSING SOCIALISM.

But the political economic laws of the new world are different from the physical laws.

PEOPLE SHOULD STUDY THE THEORIES OF HEGEL, MARX, ENGELS, AND LENIN.

And then, a new world will be built without a civil war. There will be millions of smartest young people on the planet. The theories of leaders will give rise to millions of new leaders, millions of new Marxes, Hegels, Engels, Lenins. The old world will have enough of a political economic heart attack.

THE SOCIETY OF THE FUTURE IS A NEW HELLAS

Why did people go with questions to Diogenes? The rich people called Diogenes “Diogenes the Dog” for his life in a sea barrel. But, despite this nickname, smart rich people also went to Diogenes, because they were interested in the secrets of the universe. They did not go to Diogenes with questions of how to get rich. The Greeks went with clever questions and waited for a clever answer about the mysteries of humankind.

America	Hellas
“You look like a million dollars”. It means that you are fantastic, you are the spitting image of a golden idol, and you are a ton of gold.	“The bridge is beautiful as a GIRL”. For the Greeks, the girl was the goddess of beauty. She was the measure of everything beautiful. The Greeks compared everything to a girl.
American. Of all things and people the measure is GOLD (value) of the things that are, that they are, and of the things that are not, that they are not.	Protagoras. OF ALL THINGS THE MEASURE IS MAN, of the things that are, that they are, and of the things that are not, that they are not.
The bottom line is that everything turns upside down!	
Marx said: “CAPITALISM IS AN UPSIDE DOWN WORLD”	

Marx's theorem. Capitalism is a world that stands upside down. And the task of people is to fix it and put SOCIETY on its feet.

The law of total inversion under capitalism was discovered by Marx. And it is included as part of Marx's theory of thing VALUE fetishism.

Fetishistic glasses turn everything upside down. Absolutely everything. The thing fetishist sees the world upside down. He takes the cause for the consequence, and the consequence for the cause. The thing fetishist thinks that his inverted world is the real world. The massive conversion of MEN to "WOMEN" and WOMEN to "MEN" is a consequence of the reversal of Marx's theory. This conversion shows that capitalism has come to an end. However, socialism also died of old age. Only PURE COMMUNISM is ahead.

§ 10.2. The need to create a new science "MODEL THEORY" for Marx's CAPITAL

Lobachevsky's axiomatic geometry is difficult to understand. For this reason, even famous mathematicians did not accept it. But model theory has changed everything.

After the Poincaré half-plane model of Lobachevsky, the non-Euclidean geometry became clear since all its axioms and theorems can be clearly demonstrated in the Poincaré model. And soon a new science appeared in logic, which is called the model theory.

The main postulate of this new science is:

"Any axiomatic theory must have its own visual model". Thus, it is the turn of political economic thermodynamics. It needs a model more than Lobachevsky's geometry does. The political economy of Marx is a VIRTUAL SCIENCE.

Everything in it IS NOT WHAT IT SEEMES. Let's show it.

Here we consider any market in any city. Consider any market in any city. Can it be described by a thermodynamic model? It is hard to be described. After all, both buyers and sellers of commodities are variable people. And this market gas does not exist from the point of view of thermodynamics of a glass vessel.

The vessel must be modeled! Next, we need to model a commodity-molecule in thermodynamics. It is also necessary to model its collision. However, it is not easy either.

A man comes to the market. He looks around the entire market with greedy eyes. This man-molecule can be considered to have collided with all the other traders-molecules.

How does Marx differ from all other scientists? Marx always sees a person, not a commodity. So we, following Marx, depicted the collision of commodities as a collision of people. And it turned out that it is not so easy to model a collision of commodities in the market.

THE VIRTUAL WORLD of Marx's Political Economy

Biology		Political economy of Marx	
Biology	In biology	Political Economy	In political economy
Man has hands	Man is living.	He cannot work. He is called "the armless man".	Man is armless. He has no political economic hands.
Man has hearing.	Man is not deaf.	He cannot sing. He is called "the deaf man".	Man is deaf. He has no political economic ears.
Man is living	Money is "dead" paper.	Money is a LIVING THING.	Man is dead. When we kill MONEY, we WILL REVIVE OURSELVES.
Proletarian	Living	Dead	It comes to life only temporarily, during the revolution. But in the last

			revolution, he will come to life forever. People are the living dead.
--	--	--	--

From Marx's point of view, our planet is the planet of the dead. People are just bodies of nothing. People only seem living. In fact, they are dead. They cannot walk without LIVING CAPITAL or LIVING STATE. The socialist revolution was an outbreak. The people of socialism came to life for a while, and living people performed miracles. But then the social idea exhausted itself, and people died.

PEOPLE WILL COME TO LIFE, and states and money will die forever in a communist (non-socialist) revolution.

Why were slaves called "living dead" in ancient Egypt and Rome? The answer is that slaves were forbidden to laugh. But even now, people do not laugh at factories and universities. The dead cannot even smile. But soon people will say to both businessmen and chiefs: "Let us laugh".

Hegel's great theory of IDEALISM

The idea of socialism lived in the souls of the Soviet people. Socialism was also alive. But socialism has fulfilled its historic duty. The idea of socialism has aged and died in the souls of people. Socialism died of old age. And no one is to blame for this.

But soon a new IDEA will be born in the souls of people – it is the IDEA of a global commune.

In America, they say	In Russia, they say
"Will you trust your wallet to him?"	"Will you go with him to intelligence?"
If you entrusted your wallet, then you can entrust your wife and your life. For an American, his life and his wife are nothing compared to money.	The question is, will you trust your life to him or not.
"You are better than a brother, you are a partner"	"Die, but help your brothers"
A partner is a money friend	A brother is a brother
From the "Octopus" movie: "When money sings, the muse is silent".	People do sing in Russia. But now they are also silent, because MONEY is singing.

Marx's Theory of VALUE Fetishism

At first, the money was just pieces of paper. But then they absorbed THE GREED OF THE PEOPLE and CAME TO LIFE, and the people died.

Question. How many money proverbs are there in America? The answer is – more than thousands. All American speech is expressed in money. The American as a person has not been born yet. He is only a human embryo. This fact can be shown by modeling the value fetishism of Marx.

The model of the thing VALUE fetishism. Fetishism No. 1

There is an American. He is enclosed in a GOLDEN SPHERE. He is in the golden prison and he is okay with it. But he is not a human, he is a money creature. Any thought, any feeling that comes from him, is immediately surrounded by a golden money sphere, and flies across the planet. Therefore, his entire vocabulary has a monetary form. He has no human words.

Examples.

American proverb: “Nothing is certain except for death and taxes”. The death of his own father, whom he has not seen for ten years, is a trifle. The real death is taxes. If the dollar dies, that is a big tragedy.

American proverb: “Money is freedom made of gold”. Here we also can see that the concept of freedom does not mean human freedom, but it is freedom of money. The bottom line is that every human word in America has a money analogy. And there are no human words. But there is no new Balzac who would describe all this in his works, because Western writers live in a golden sphere and consider their life to be human life.

The veracity of American cinema

The film “THE MATRIX” is a demonstration of Hegel-Marx’s theory of thing fetishism. The matrix, within which the man of the West exists, is GOLD. Living for money is an illusory human life. The authors of the work feel that they are not people, they do not live like HUMAN, and that they DO NOT LIVE AT ALL, they are in the MATRIX.

It is not normal when a man is less happy with his child than with his money. So, the MATRIX movie was created long ago by the Great Hegel and the Great Marx. But the authors of the film did not know this, because they received a lot of money from the MATRIX. And therefore they are pleased to be in the MATRIX of capitalism. They are pleased to go to expensive shops; they are pleased to buy young lovers. However, they are living and thinking people; sometimes they cannot sleep at night and think: “Something is wrong in this world, something is wrong. Perhaps we really do not live; maybe we are in the MATRIX now?”

Hegel and Marx can respond with the theory of thing VALUE fetishism:

People! You really do not live; you really are in the GOLDEN MATRIX OF CAPITALISM. You are embryos of history. You have not yet been born as PEOPLE and as new great GODS.

According to Marx, under capitalism, only MONEY is LIVING, and a man is a political economic DEAD.

According to Marx, under socialism, only the STATE is LIVING, and a person is DEAD (in political economy).

In biology, people are living beings, and money is just dead pieces of paper. But in Marx’s virtual political economy, the opposite is true. There are only two living beings on the planet in Marx’s political economy. These two living gods are LIVING MONEY and LIVING STATE. These two dark Gods control eight billion political economic DEAD. People are the living dead. They do not laugh. Dead people are not supposed to laugh.

The STATE is a LIVING SELF-ROTATING MACHINE in Marx’s theory. The STATE rotates neither by presidents nor by ministers. The HUGE LIVING ROBOT rotates both ministers and workers. In scientific language it sounds like this:

Theorem. The LAWS of SELF-MOTION and the LIFE of the ROBOT-STATE are OBJECTIVE. They do not depend on people. They do not depend on the ministers and the president.

The president and the minister are only the main priests of their great God- STATE. The priest cannot control his God. The God-State controls its priest. The God-State fulfills its historical mission through its great priests. But Marx claims that the historical mission of the two great DARK GODS is completed. Man no longer needs them. Man is able to live without them.

THE WALKING DEAD (TV SERIES)

The creators of this TV series feel that the planet smells dead. They realize that the world is rotten, that the dead devour people.

Hegel said: “THE DEAD SEIZES THE LIVING”.

But the bottom line is that the WALKING DEAD series has been written for a long time. And its authors are Marx and Hegel. And these LIVING DEAD devouring people are LIVING MONEY (not capitalists!), and LIVING STATE (not ministers!). Two living dark Gods have grown old and are rotting now. It is time for them to go the way of the dodo.

American horror movies with living dolls

Here are some names: Blood Dolls, Puppet Master, and Demonic Toys. These films are excellent guides to Marx's theory of commodity-money fetishism. Why do directors make such horror films? Well, because the director is a human. He feels that commodities have come to life and control people. There is a garbage island the size of France in the Pacific Ocean. Death threatens not only rivers and lakes, but also oceans. And this is real horror.

Living MONEY and COMMODITIES force people kill each other. They force people destroy the oceans. Soon they will force people to kill themselves, to kill all mankind.

Neither the bourgeoisie nor the oligarchs are to blame for this horror. Both the bourgeoisie and the oligarchs are only priests of their great God CAPITAL. And CAPITAL is neither a man, nor oligarchs.

CAPITAL is LIVING, self-growing MONEY.

CAPITAL does not obey its oligarch priests. CAPITAL lives and grows according to its own laws. Oligarchs are only priests of their beloved great god.

The laws of birth and reproduction of this great creature, this great immortal god, were discovered by Karl Marx. And now we know that CAPITAL is mortal and it can be killed (not oligarchs, not people, but CAPITAL).

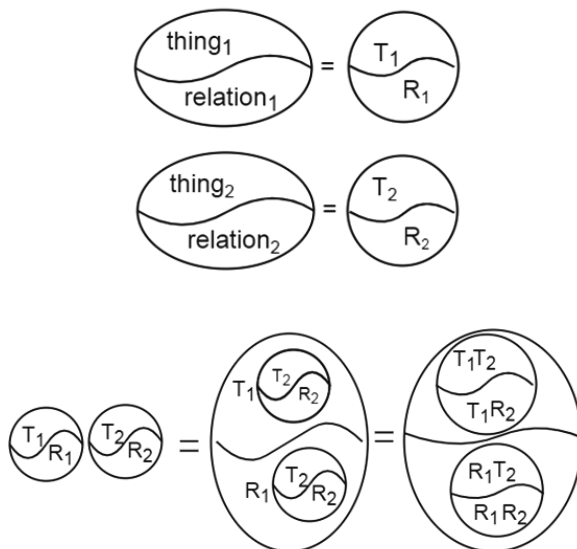
THE THEORY OF THE POLITICAL ECONOMIC DEAD by Marx

Marx. When LIVING MONEY dies (not capitalists, not people, but MONEY), when a LIVING STATE dies (not ministers, not people, but COMMAND), then PEOPLE WILL COME TO LIFE!

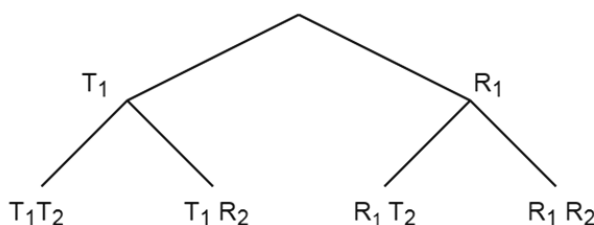
Chapter XI. Derivation of the laws of dialectics and political economy by using MULTIPLICATION OF DIALECTICAL PAIRS

§ 11.1. Multiplication of dialectical pairs and transformation of a complex pair into a graph

Philosophers felt the need of their ancient science to be mathematized. But having humanitarian mindset, they could not grow as high as Viet, who introduced notations into algebra and immediately derived Vieta's theorem for a quadratic equation. Philosophers have not tumbled to an idea of studying the A-B abstract pair. Nevertheless, they had one. The THING-RELATION pair served as an abstract pair. Let us introduce the notation and multiply the pairs:



There is the graph of the product we have got:



§ 11.2. Derivation of the LENIN'S DEFINITION OF THE LAW by multiplying dialectical pairs

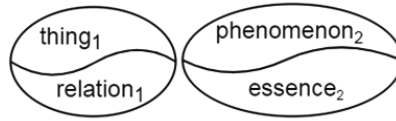
Lenin's theorem

Theorem-axiom. The LAW is an ESSENCE and a RELATION between ESSENCES. There are several equivalent formulations.

Theorem-axiom. The LAW is a RELATION and a RELATION between RELATIONS, i.e., a second-order relation.

Theorem-axiom. The LAW is an ESSENCE and an ESSENCE of an ESSENCE, i.e., the second-order ESSENCE.

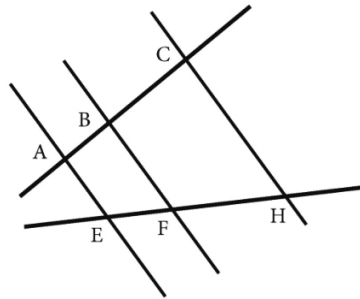
We have already obtained the Lenin's definition by multiplying pairs. Multiplication of suitable pairs makes it possible to obtain various versions of Lenin's definition of the law:



§ 11.3. Interpretation of Lenin's theorem on the LAW in linear and projective geometries

Linear geometry

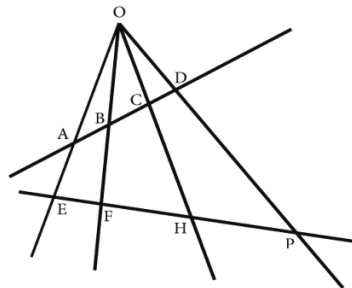
Thales' theorem. THE RATIO OF SEGMENTS is an invariant of a parallel projection, i.e., with a parallel projection, the following equality is true: $\frac{AB}{BC} = \frac{EF}{FH}$



Projective geometry

Theorem of projective geometry. THE RATIO BETWEEN THE RATIOS OF SEGMENTS is an invariant of the central projection, i.e., with the central projection, the following equality is true:

$$\frac{\frac{AB}{AC}}{\frac{BD}{CD}} = \frac{\frac{EF}{EP}}{\frac{FH}{HP}}$$



LENIN

1. The law (invariant) is THE RATIO OF SEGMENTS.
2. The law (invariant) is THE RATIO BETWEEN THE RATIOS OF SEGMENTS.

Lenin's works made it clear that categories need to be split TWICE. This is how the SPLITTERS IDEOLOGY was born.

The splitter's prayer is "SPLIT, SPLIT, SPLIT. Bifurcate, bifurcate, and bifurcate. Bifurcate it when you take a step".

It is necessary to bear in mind that SPLITTING A CATEGORY is more complex than SPLITTING AN ATOM. Before splitting the atom, the category must be split. If the category is split, the atom will be split as well.

The creation of scientific ideologies and scientific prayers is one of the tasks of philosophy. A philosopher is a scientific dialectical priest who creates scientific dialectical prayers and makes scientists keep telling them.

Lenin's work made it clear that the Marx's CAPITAL needs to be expressed in the form of a FOUR-DIMENSIONAL SPACE OF CATEGORIES. The question arises: should mathematical logic be four-dimensional?

Lenin is the great political philosopher

Lenin's political works are written only in philosophical language. Lenin has no other language. In all fifty-five books written by him, Lenin uses the DETERMINISM theory, the law of the UNITY OF THE WORLD, the REFLECTION theory, the principle of DEVELOPMENT (Hegel), the law of the negation of the negation, the law of TIME REVERSION, the theory of universal connection, the theory of TRANSITIONS, etc.

Lenin develops all major decisions on building a new world from the laws of DIALECTICS! Lenin PROVES EVERYTHING and demands the same from the revolutionaries. Lenin tried to teach philosophy to all his close associates. But the leaders bit Lenin from all sides as if they were dogs.

Even performing before the weavers, Lenin touched upon the theorems of philosophy!

Lenin's works are incredibly complex. They contain HUNDREDS of new IDEAS.

Only MATHEMATICS or PHYSICISTS are able to study Lenin's works.

The works of Lenin, Hegel, Marx, Engels are COMPLETELY IDENTICAL to each other. There cannot be two physics, two biologies. It is just as true as it is impossible to have two dialectics or two political economies of socialism, or two political economies of communism. In pursuance of the principle of DETERMINISM, there is always ONE TRUTH.

Chapter XII. IDEAL MONEY MARKET model

§ 12.1. Market model in the form of an ideal gas state equation with VALUES enclosed within the GOLD-THING

At this point, a GOLD-RELATION is a VALUE. The GOLD-RELATION is a universal measurer. By conditional calculation, we have determinated the fundamental constant of the world market, which is conditionally equal to:

$$\tilde{p} = 2.05 \frac{\text{gram of gold}}{\text{labour hour}}.$$

Let us suppose that we sell wheat with a commodity weight of M tons and a labour time of V . The molecule is one ton of the commodity, then the number of molecules is $N = M$.

The market model is as follows:

$$\left\{ \begin{array}{l} pV = Nk\theta \\ C_V = 1k \\ C_P = 2k \\ R = 1k \\ N_A = 1 \\ k = 1 \\ U = Nk\theta \\ N = M \end{array} \right.$$

§ 12.2. The local LAW OF VALUE acts in differential form in the TANGENT SPACE of the manifold of states

Theorem. THE LAW OF VALUE.

In the isobaric process, the unit price of a commodity's use value is directly proportional to its labour value. The proportionality factor is the fundamental constant of value:

$$\theta = p \frac{V}{Nk}$$

The p parameter is constant during the entire isobaric process. The law of value is similar to the law of direct proportion. However, this formulation veils the essence of the ongoing events even for the isobaric process due to the nonlinear dependence. The law of value is by no means similar to the equation of a straight line. To correctly represent the law of value, we must use differentials. So, we have the following for the isobaric process:

$$d\theta = p d \frac{V}{Nk}.$$

Therefore, the law of value is indeed the law of direct proportion for an isobaric process, but there are the following additions:

- 1) The law of value for the isobaric process acts as the law of direct proportion only in differential form.
- 2) The law of value is performed only locally, in the tangent space of the manifold of states.

Local law of value for the isobaric process

An infinitesimal change in the value of labour time per unit of use value causes a proportional infinitesimal change in price. The direct proportion coefficient is the fundamental constant of value.

The law of value for arbitrary processes

The p, V, θ variables generate a state surface. But the equations themselves do not form a closed system of equations. The process itself must be specified. This selected process is a specific line on the surface of states. Let us fix the point p_0, V_0, θ_0 . At this point, we consider a tangent surface and a straight line tangent to the process line. The tangent curve is on the tangent plane. Let us write the equation of state in differential form:

$$pdV + Vdp = Nkd\theta.$$

At this stage, we consider the number of commodities (commodity weight) constant. This is incorrect, but there are problems with variable commodity weight. Our goal is to obtain accurate equations of the market state. We get:

$$d\theta = pd \frac{V}{Nk} + \frac{V}{Nk} dp.$$

Using the coordinates of a specific point, we get as follows:

$$d\theta = p_0 d \frac{V}{Nk} + \frac{V_0}{Nk} dp$$

But the law of value is only the first part of this equation, i.e., the following formula:

$$d\theta = p_0 d \frac{V}{Nk}.$$

$\frac{V_0}{Nk} dp$ means that the local law of value is constantly violated in all processes, except for the isobaric process. But the sum of these violations is zero. So, the law of value is divided into the local law of value and the global law of value.

§ 12.3. The GLOBAL LAW of VALUE IS the LAW of CONSERVATION

This law of value is the universal law of conservation of matter and energy.

The local law of value

This law acts around the selected point. Or more precisely, it acts on the tangent plane and tangent line of the selected process. Variable differentials are tangent vectors. It means that the differentials of the parameters are in the tangent plane and the tangent line. Let us introduce a new variable:

$$v = \frac{V}{Nk}.$$

We set specific values to variables. Let us assume that $p_0 = 5, \frac{V_0}{Nk} = 10$, then the local equation of state is as follows:

$$d\theta = p_0 dv + 10dp = 5dv + 10dp.$$

In increments, the formula is:

$$\Delta\theta = p_0\Delta v + 10\Delta p = 5\Delta v + 10\Delta p.$$

The law of value itself is $\Delta T = p_0\Delta v = 5\Delta v$. We see that the law of value is locally violated on a constant basis, but in total these violations neutralize each other. We have a flaw in our thought process. We have defined a specific process, the graph of which is a line located on the surface of states. Its graph can be found from the solution to this thermodynamic problem, i.e., the dependency can be obtained:

$$p = p(v, \theta_0) = p(v) \Rightarrow dp = p' dv .$$

At our particular point, let the values be $dp = 0.3dv$. Substituting these values into the differentials of the state, we get the following:

$$d\theta = p_0 dv + 10dp = 5dv + 10dp = 5dv + 10 * 0.3dv = 8dv .$$

Let us write the equations of state in increments in the tangent space at a given point.

Local law of value	Real local motion of the system
$d\theta = p_0 dv = 5dv$	$d\theta = 8dv$
$\Delta\theta = 5\Delta v$.	$\Delta\theta = 8\Delta v$
With an increase in production volumes by an infinitesimal value, we get	
under the law of value	more than under the law of value
five infinitesimal units	eight infinitesimal units
We will stand to benefit from small increases in production. We will get ahead of our competitors in the market. The ideal gas equations tell us that local expansion of production is beneficial to us.	
But the local maximum may not be global	

Chapter XIII. Reproduction. Marx's schemes

§ 13.1. The law of value under capitalism

Hypothesis. Theorem. The capitalist company acts as a heat engine of a new type.

Consequence. The functioning of the capitalist company as a heat engine demonstrates the operation of the law of value under capitalism.

§ 13.2. Simple reproduction in thermodynamic form. Marx's scheme

There is an example given by Marx:

Book II. Capital. Simple production. Marx's example:		
Industry 1	$4000(c1) + 1000(v1) + 1000(m1) = 6000$	In the means of production
Industry 2	$2000(c2) + 500(v2) + 500(m2) = 3000$	In commodities

Hypothesis.

Industry I is a heat engine I.

Industry II is a heat engine II.

Simple production is a system of two connected heat engines. A process must also be defined.

§ 13.3. Simple reproduction in standard form. Marx's scheme

The capitalist market can have three fundamental constants.

Fundamental constants of the capitalist market		
1 st	p	Fundamental constant of value
2 nd	$\frac{m}{c + v}$	Rate of profit
3 rd	$\frac{v}{c}$	Organic composition of capital

In accordance with our loose calculation, the fundamental constant in the United States is:

$$p = 2.55 \frac{\text{gram of gold}}{\text{labour value hour}}$$

The minimum wage in the U.S. is $v = 10$ dollars per hour. The gold value is 50 dollars per gram. Thuswise, the minimum wage is $v = 0.2$ grams of gold.

Abstract surplus value

The United States worker produces $p = 2.55$ grams of gold per labour value hour and receives $v = 0.2$ grams of gold. Let us calculate the surplus value using Marx's formula:

$$p = v + m \Rightarrow m = p - v = 2.55 - 0.2 = 2.32 \text{ grams of gold}$$

It turns out that the surplus value is incredible high. And the worker receives an incredible slight share of the value created by him:

$$\frac{v}{p} = \frac{0.2}{2.55} * 100\% = 7.8\%$$

The average weekly wage in America is 881 dollars. The working week is 35 hours.

It follows that the average hourly wage is $v = 25.2$ dollars per hour. We have $v = 0.5$ grams of gold.

$$m = p - v = 2.55 - 0.5 = 2.05 \text{ grams of gold}$$

$$\frac{v}{p} = \frac{0.5}{2.55} * 100\% = 19.6\%$$

The reasons for such small amounts as a result:

Reason 1. Our model is incorrect. There is no total confidence in the correctness of our model. Only the model application to the real market can provide total confidence.

An appeal to physicists. There is a need to calculate the thermodynamic process (isobaric, isothermal) in the world grain market. Such a calculation can be carried out without resorting to experiments through the use of the similarity theory.

Reason 2. In many industries, wage is much higher than the minimum wage of 10 dollars.

Reason 3. In this case, the surplus value $m = p - v = 2.32$ grams of gold is not real surplus value. The real one is formed at a real enterprise. In such a situation, what does the following value express?

$$m = 2.32 \text{ grams of gold}$$

There is the calculation of the degree of parasitism of capitalism under the principle of equality of people.

There is an average wage for the working people. Let us eliminate all parasites.

The question concerning parasites is complicated. The chief physician is a practicing physician at a hospital. Time he spends on management is parasitic since it does not create value. But time spent on performing surgeries creates value.

After the elimination of parasites, there are working people and semi-working semi-parasites. Football players create a commodity-service, but they are semi-parasites. We reduce the wage of football players and all semi-working semi-parasites to the average wage.

In that way, we get the monetary amount of real labour, which is small compared to the entire money quantity received by the parasites.

Thus, a small share of workers' wages is true from the standpoint of pure communism:

$$\frac{v}{p} = \frac{0.5}{2.55} * 100\% = 19.6\%$$

Reason 4. Is the following value true and real?

$$\frac{v}{p} = 19.6\%$$

Do the workers indeed receive only a fifth of what they create?

Marx's Capital as a virtual science

Marx's lemma. Complicated labour can be reduced to simple labour.

This Marx's lemma is necessary in order to make workers out to be virtual worker-molecules.

Consequence

1. The real number of workers and the number of workers-molecules coincide with each other in the large model (in the entire country's model).

2. The real number of workers and the number of workers-molecules may not coincide with each other in the model of an individual company.

Example. The simple labour-molecule is defined in the model of the entire country. We consider an individual company, where

$$\begin{aligned}\text{complicated labour} &= 2 \text{ simple labour} \\ \text{one} &= \text{complex worker} = 2 \text{ simple workers} = 2 \text{ people}\end{aligned}$$

Conclusions. In the mathematical model of this company, there are twice as many workers-molecules as the real number of workers.

Marx's axioms of simple production

- The simple production consists of two industries:
Industry I is production of the means of production;
Industry II is production of the means of consumption.
- The market is value, not money.
In spite of the formal presence of money in this model, money does not play a meaningful role.
- The market is in the equilibrium state. We do not consider transition processes.
- The first and major fundamental constant of value p is constant.
- The 3rd fundamental constant is the organic composition of capital $\frac{v}{c}$. In the example given by Marx, it is equal to 100%, i.e., $\frac{v}{c} = 1 = 100\%$.
- Production is simple, not expanded, i.e., the capitalist spends all the surplus value on personal consumption.
- Such elements of constant capital are not considered as buildings.
- The calculation period is 1 year.
- The wage is issued once a year.
- The depreciation of the constant capital is 1 year.

Appeal to mathematicians. There is a need to introduce new notations in Marx's Capital and to model and visualize Marx's Capital.

Notations

Parameters of the industry I (production of the means of production) are denoted by capital letters.

Parameters of the industry II (production of the means of consumption) are denoted by small letters.

The start of the production. The beginning of the year.
Industry I is production of the means of production

Capital and its form		Hired workers	Capital and its form	Workers
Constant	C_1 (machines, materials)		C_1 (machines, materials)	At the labour market, workers sold their LABOUR POWER for V_1 , which is the price of labour power in the labour market. But workers will receive money only at the end of the labour period. It means that they are advancing the capitalists.
Variable	V_1 (money, values)		V_1 (workers) Variable capital in the form of living people	

The end of the production. The end of the year.

Depreciation	Capital		Form of capital	Workers
Old machines are worn out	Constant	$\widetilde{C}_1 = C_1$	New machines, new materials	The workers received an amount of money v_2 , which was determined before the start of production. Variable v_2 is not payment for labour, since the amount of money was determined when the amount of labour was unknown. Workers leave after receiving money
There are no workers. They are gone.	Variable	$\widetilde{V}_1 = V_1$	New machines, new materials	
	Surplus value	M_1	New machines, new materials	

The start of the production. The beginning of the year.
Industry II is production of the means of consumption.

Capital and its form		Hired workers	Capital and its form	Workers
Constant	c_2 (machines, materials)		c_2 (machines, materials)	At the labour market, workers sold their LABOUR POWER for v_1 , which is the price of labour power in the labour market. But workers will receive money only at the end of the labour period. It means that they are advancing the capitalists.
Variable	v_2 (money, values)		v_2 (workers) Variable capital in the form of living people	

The end of the production. The end of the year.

Depreciation	Capital		Form of capital	Workers
Old machines are worn out	Constant	$\widetilde{c}_2 = c_2$	Consumer products	The workers received an amount of money v_2 , which was determined before the start of production. Variable v_2 is not payment for labour, since the amount of money was determined when the amount of labour was unknown. Workers leave after receiving money
There are no workers. They are gone.	Variable	$\widetilde{v}_2 = v_2$	Consumer products	
	Surplus value	m_1	Consumer products	

There is an exchange between the industries at the end of the year

Industries	Capital			Workers. They are no longer capital. They are strangers.	
	constant	variable	surplus value	They have sums of money	
I	C_1 - machines	V_1 - machines	V_1 - machines	V_1 (money)	Workers I
II	c_2 - food products	v_2 - food products	m_2 - food products	v_2 (money)	Workers II

Industry II

- 1) Workers II buy food products from their own capitalist II and eat it.
- 2) Capitalist II eats his surplus value (food products) m_2 .

Industry II

Capitalist II made new machines and restored his constant capital in the same amount - c_1 .

Industries	Capital			Workers. They are no longer capital. They are strangers.	
	constant	variable	surplus value	They have sums of money	
I	C_1 - machines	V_1 - machines	M_1 - machines	V_1 (money)	Workers I
II	c_2 - food products	v_2 - money	0	0	

The further exchange scheme can be as follows. Workers I buy machines. We get:

Industries	Capital			Workers	
	constant	variable	surplus value	They have machines for the amount of	
I	C_1 - machines	V_1 - money	M_1 - machines	V_1 (machines)	Workers I
II	c_2 - food products	v_2 - money	0	0	

The exchange continues

1. Workers I exchange their v_1 (machines) for a part of food products c_2 .
2. Capitalist I exchanges his surplus value m_1 (machines) for a part of food products c_2 .

Marx's theorem. For the functioning of simple production, the following equality must be fulfilled: $c_2 = V_1 + M_1$

Exchange results

Industries	Capital			Workers	
	constant	variable	surplus value	They have machines for the amount of	
I	C_1 - machines	V_1 - money	M_1 - food products	V_1 (food products)	Workers I
II	c_2 - machines. $c_2 = M_1 + V_1$	v_2 - money	0	0	

Capitalists I and workers I eat their products

Industries	Capital			Workers. They are strangers	
	constant	variable	surplus value	They have machines for the amount of	
I	C_1 - machines	V_1 - money	0	0	
II	c_2 - machines. $c_2 = V_1 + M_1$	v_2 - money	0	0	

We are back to the underlying situation. A new production cycle begins.

Note. Therefore, Marx's assumption about the constancy of the organic composition of capital $\frac{m}{c}$ is unnecessary. But in the thermodynamic model, some variables must be captured in order to get the process. It seems plausible that Marx indicates a specific process, capturing the value $\frac{m}{c}$.

Conclusion. Modelling simplified the representation of Marx's work.

§ 13.4. Criticism of Leontief model

The fundamental constant of value, the rate of profit and the constant of the organic composition of capital are not included in Leontief model. From there, Leontief's equations are not fundamental equations of economics. There is a lack of logic in the economic process. Let us try to fix the weak points of these equations using Marx's work.

§ 13.5. Marx's scheme of simple reproduction written in matrix form

We introduce the following notations. Let us consider a matrix A :

$$A = \begin{pmatrix} A_{11} & A_{12} & A_{13} \\ A_{21} & A_{22} & A_{23} \\ A_{31} & A_{32} & A_{33} \end{pmatrix}$$

Notations of the matrix rows:

$$\begin{cases} A_1 = (A_{11} & A_{12} & A_{13}) \\ A_2 = (A_{21} & A_{22} & A_{23}) \\ A_3 = (A_{31} & A_{32} & A_{33}) \end{cases}$$

Notations of the sum of the elements of the matrix rows:

$$\begin{cases} \mathbf{A}_1 = \sum A_1 = A_{11} + A_{12} + A_{13} \\ \mathbf{A}_2 = \sum A_2 = A_{21} + A_{22} + A_{23} \\ \mathbf{A}_3 = \sum A_3 = A_{31} + A_{32} + A_{33} \end{cases}$$

Notations of the matrix columns:

$$A^1 = \begin{pmatrix} A_{11} \\ A_{21} \\ A_{31} \end{pmatrix}; \quad A^2 = \begin{pmatrix} A_{12} \\ A_{22} \\ A_{32} \end{pmatrix} \quad A^3 = \begin{pmatrix} A_{13} \\ A_{23} \\ A_{33} \end{pmatrix}$$

Notations of the sum of the elements of the matrix columns:

$$\begin{cases} \mathbf{A}^1 = \sum A^1 = A_{11} + A_{21} + A_{31} \\ \mathbf{A}^2 = \sum A^2 = A_{12} + A_{22} + A_{32} \\ \mathbf{A}^3 = \sum A^3 = A_{13} + A_{23} + A_{33} \end{cases}$$

The sums are denoted with bold black letters. The notation of the sum of all matrix elements:

$$A = \sum A = \sum_{i=1}^n \sum_{j=1}^m A_{i,j}$$

The start of the production. The beginning of the year.
Industries I, II and III are production of the means of production.

Industries	Capital of industries	Technological matrix			Variable capital in the form of money (values)
		Constant capital in the form of thing (machines, engines, materials)			
		Machines	Engines	Materials	
I	K_1	C11	C12	C13	V_1
II	K_2	C21	C22	C23	V_2
III	K_3	C31	C32	C33	V_3

Some elements of the technological matrix can be zeros.

Notation. Machines, engines and materials are to be called things. Let us define quantitative accounting of machines and engines as thing accounting. Formally, the model does not include thing accounting; machines, engines and materials are established by values. However, it is possible to introduce thing accounting.

The equivalence lemma.

1. Summation over matrix rows is value accounting.
2. Summation over matrix columns is equivalent to thing accounting at constant prices for machines and materials.

The equation of state in matrix names:

$$K = C \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} + V$$

The equation of state in matrix elements:

$$\begin{pmatrix} K_1 \\ K_2 \\ K_3 \end{pmatrix} = \begin{pmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{31} & C_{33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} + \begin{pmatrix} V_1 \\ V_2 \\ V_3 \end{pmatrix}$$

Hired workers. Buying of labour power in the labour market

Industries	Capital of industries	Technological matrix			Variable capital in the form of workers (living people)	The workers sold their labour power. But they have no money yet
		Constant capital in the form of thing				
		Machines	Engines	Materials		
I	K_1	C_{11}	C_{12}	C_{13}	V_1	0
II	K_2	C_{21}	C_{22}	C_{23}	V_2	0
III	K_3	C_{31}	C_{32}	C_{33}	V_3	0

Lemma. Workers advance capitalists.

The money that workers receive at the end of the production cycle is not a wage, because its amount is determined before production begins when the amount of labour is unknown. The money is a payment for labour power and is formed at the labour market, not in production.

The technological matrix is to be constantly updated, in other circumstances the production process will be impossible.

The end of the production. The end of the year.

Depreciation is one year. Old machines, engines and materials have disappeared.

In- dustri es	Capital of industri es	Constant capital in the form of ma- chines and engines. Machines, en- gines and materials (things) are newly created			Variable capital in the form of thing	Surplus value in the form of thing	The workers received money. Their money is not capital
		machines	engines	materials			
I	\widetilde{K}_1	$\widetilde{C11}$	$\widetilde{C12}$	$\widetilde{C13}$	\widetilde{V}_1	\widetilde{M}_1	\widetilde{V}_1
II	\widetilde{K}_2	$\widetilde{C21}$	$\widetilde{C22}$	$\widetilde{C23}$	\widetilde{V}_2	\widetilde{M}_2	\widetilde{V}_2
III	\widetilde{K}_3	$\widetilde{C31}$	$\widetilde{C32}$	$\widetilde{C33}$	\widetilde{V}_3	\widetilde{M}_3	\widetilde{V}_3

Let us describe the variable capital and surplus value in the form of thing:

$$\widetilde{V} = \begin{pmatrix} \widetilde{V}_1 \\ \widetilde{V}_2 \\ \widetilde{V}_3 \end{pmatrix} = \begin{pmatrix} \widetilde{V11} & \widetilde{V12} & \widetilde{V13} \\ \widetilde{V21} & \widetilde{V22} & \widetilde{V23} \\ \widetilde{V31} & \widetilde{V32} & \widetilde{V33} \end{pmatrix}; \quad \widetilde{M} = \begin{pmatrix} \widetilde{M}_1 \\ \widetilde{M}_2 \\ \widetilde{M}_3 \end{pmatrix} = \begin{pmatrix} \widetilde{M11} & \widetilde{M12} & \widetilde{M13} \\ \widetilde{M21} & \widetilde{M22} & \widetilde{M23} \\ \widetilde{M31} & \widetilde{M32} & \widetilde{M33} \end{pmatrix}.$$

The value equation of state in matrix names:

$$\widetilde{K} = (\widetilde{C} + \widetilde{V} + \widetilde{M}) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}.$$

The thing equation of state in matrix names:

$$\begin{pmatrix} \text{Machines} \\ \text{Engines} \\ \text{Materials} \end{pmatrix} = \left((1 \quad 1 \quad 1)(\widetilde{C} + \widetilde{V} + \widetilde{M}) \right)^T$$

The system of equations of state in two equivalent forms: value and thing:

$$\left| \begin{array}{l} \widetilde{K} = (\widetilde{C} + \widetilde{V} + \widetilde{M}) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \sim \\ \begin{pmatrix} \text{Machines} \\ \text{Engines} \\ \text{Materials} \end{pmatrix} = \left((1 \quad 1 \quad 1)(\widetilde{C} + \widetilde{V} + \widetilde{M}) \right)^T \end{array} \right.$$

The system of equations of state in two equivalent forms: value and thing:

$$\left| \begin{array}{l} \text{value equation of state} \sim \\ \text{thing equation of state} \end{array} \right.$$

$$\begin{vmatrix} \widetilde{K}_1 \\ \widetilde{K}_2 \\ \widetilde{K}_3 \end{vmatrix} = \begin{pmatrix} \widetilde{C}_{11} & \widetilde{C}_{12} & \widetilde{C}_{13} \\ \widetilde{C}_{21} & \widetilde{C}_{22} & \widetilde{C}_{23} \\ \widetilde{C}_{31} & \widetilde{C}_{32} & \widetilde{C}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \\
 \begin{pmatrix} \text{Machines} \\ \text{Engines} \\ \text{Materials} \end{pmatrix} = \\
 = \begin{pmatrix} 1 & 1 & 1 \end{pmatrix} \left(\begin{pmatrix} \widetilde{C}_{11} & \widetilde{C}_{12} & \widetilde{C}_{13} \\ \widetilde{C}_{21} & \widetilde{C}_{22} & \widetilde{C}_{23} \\ \widetilde{C}_{31} & \widetilde{C}_{32} & \widetilde{C}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \right)^T$$

Quantitative exchange of constant capital between industries I, II, III

The industries have created new machines, engines and materials. The exchange of machines, engines and materials begins.

The leading question. Is there an exchange, at which the technological matrix will be renewed?

Theorem. An exchange, at which the technological matrix will be renewed exists.

Proof.

Quantitative accounting					
Technological matrix			Newly created machines, engines and materials		
\widetilde{C}_{11}	\widetilde{C}_{12}	\widetilde{C}_{13}	\widetilde{C}_{11}	\widetilde{C}_{12}	\widetilde{C}_{13}
\widetilde{C}_{21}	\widetilde{C}_{22}	\widetilde{C}_{23}	\widetilde{C}_{21}	\widetilde{C}_{22}	\widetilde{C}_{23}
\widetilde{C}_{31}	\widetilde{C}_{32}	\widetilde{C}_{33}	\widetilde{C}_{31}	\widetilde{C}_{32}	\widetilde{C}_{33}

We consider these matrices in terms of value, not quantity. The sums of values row- and column-wise are the same for both matrices. Let us consider the difference between matrices:

$$\widetilde{C} - C = Z$$

$$\begin{pmatrix} \widetilde{C}_{11} & \widetilde{C}_{12} & \widetilde{C}_{13} \\ \widetilde{C}_{21} & \widetilde{C}_{22} & \widetilde{C}_{23} \\ \widetilde{C}_{31} & \widetilde{C}_{32} & \widetilde{C}_{33} \end{pmatrix} - \begin{pmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{32} & C_{33} \end{pmatrix} = \begin{pmatrix} Z_{11} & Z_{12} & Z_{13} \\ Z_{21} & Z_{22} & Z_{23} \\ Z_{31} & Z_{32} & Z_{33} \end{pmatrix} = Z$$

Lemma 2. Matrix Z is not a symmetric matrix.

Lemma 3. Matrix Z row- and column-wise has zeros.

Lemma 4. Matrix Z is an exchange matrix that renews the technological matrix.

Let us demonstrate the proof with a numerical example. The matrix Z is as follows:

$$Z = \begin{pmatrix} Z_{11} & Z_{12} & Z_{13} \\ Z_{21} & Z_{22} & Z_{23} \\ Z_{31} & Z_{32} & Z_{33} \end{pmatrix} = \begin{pmatrix} 100 & 70 & -170 \\ -150 & 20 & 130 \\ 50 & -90 & 40 \end{pmatrix}$$

By rows and columns, the matrix Z has zeros.

	Machines	Engines	Materials
Industry I	100	70	-170
Industry II	-150	20	130
Industry III	50	-90	40

Exchange of machines

We consider the 1st column of the matrix Z :

	Machines	Exchange of machines
Industry I	100	$Z_{11} = \widetilde{C}_{11} - C_{11} = 100$
Industry II	-150	$Z_{21} = \widetilde{C}_{21} - C_{21} = -150$
Industry III	50	$Z_{31} = \widetilde{C}_{31} - C_{31} = 50$

It can be seen that 100 excess machines were produced by industry I. Industry II produced 150 fewer machines than it needed. Industry III produced 50 excess machines. Consequently, the value can be transferred from industries I and III to the industry II: $50 + 100 = 150$ values. The value exchange was made. We only exchange machines for machines, not for engines or materials.

It means that we can apply the equivalence lemma, whereunder value exchange is equivalent to quantitative exchange. From there, industry II receives enough machines to renew the technology matrix. The same exchange between industries can be performed individually both for machines and materials.

Results. The exchange between industries is made. The technological matrix C is renewed.

The exchange was equivalent. Nobody stood to gain from the exchange, as well as nobody got the short end of the stick. The results are reviewed at the end of the exchange; provisional monetary results are not summed up. And therefore, the exchange matrix is not to be symmetrical. Summing up the monetary results at the end of the exchange simplifies the model.

The end of the production. The end of the year. Technological matrix is renewed.

Indus-tries	Capital of in-dustrie-s	Constant capital in the form of thing. Machines, engines and materials are newly created			Variable capital in the form of ma-chines	Surplus val-ue in the form of ma-chines and engines	The workers receive mon-ey. Their money is not capital
		Machines	Engines	Materials			
I	\widetilde{K}_1	C_{11}	C_{12}	C_{13}	\widetilde{V}_1	\widetilde{M}_1	\widetilde{V}_1
II	\widetilde{K}_2	C_{21}	C_{22}	C_{23}	\widetilde{V}_2	\widetilde{M}_2	\widetilde{V}_2
III	\widetilde{K}_3	C_{31}	C_{32}	C_{33}	\widetilde{V}_3	\widetilde{M}_3	\widetilde{V}_3

The value system of equations of state becomes:

$$\begin{pmatrix} \widetilde{K}_1 \\ \widetilde{K}_2 \\ \widetilde{K}_3 \end{pmatrix} = \left(\begin{pmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{31} & C_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \right) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

The start of the production. The beginning of the year.
Industries IV and V are the production of the means of consumption.

Industries	Capital of industries	Constant capital in the form of thing			Variable capital in the form of money (values)
		Machines	Engines	Materials	
IV	k_1	c_{11}	c_{12}	c_{13}	v_1

V	k_2	c_{21}	c_{22}	c_{23}	v_2
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The beginning of the year. Hired workers. Purchase of labour in the labour market.

Indus-tries	Capital of indus-tries	Technological matrix			Variable capital in the form of work-ers (living people)	Workers sold their labour force
		Constant capital in the form of thing				
		Machines	Engines	Materials		
IV	k_1	$c11$	$c12$	$c13$	v_1	0
V	k_2	$c21$	$c22$	$c23$	v_2	0

The end of the production. The end of the year
One year of depreciation. Old machines, engines and materials have disappeared.
Products were made.

Indus-tries	Capital of indus-tries	Constant capital in the form of food products				Variable cap-ital in the form of food products	Surplus value in the form of food products	The workers re-ceived money. Workers and their money are not capital
		Bread	Meat	Milk	Wine			
IV	\widetilde{k}_1	\widetilde{c}_{11}	\widetilde{c}_{12}	\widetilde{c}_{13}	\widetilde{c}_{14}	\widetilde{v}_1	\widetilde{m}_1	\mathbf{v}_1
V	\widetilde{k}_2	\widetilde{c}_{21}	\widetilde{c}_{22}	\widetilde{c}_{23}	\widetilde{c}_{24}	\widetilde{v}_2	\widetilde{m}_2	\mathbf{v}_2

In the consumption industry, the capitalists eat their surplus value. Workers buy food from the capi-talists and eat it. The money is returned to the capitalists and becomes capital again.

The end of the year. Industries IV and V are the production of the means of consumption.
After consumption.

Indus-tries	Capital of indus-tries	Constant capital in the form of food products				Variable capital in the form of money for the next production cycle	Surplus value	There are no workers
		Bread	Meat	Milk	Wine			
IV	k_1	\widetilde{c}_{11}	\widetilde{c}_{12}	\widetilde{c}_{13}	\widetilde{c}_{14}	v_1	0	0
V	k_2	\widetilde{c}_{21}	\widetilde{c}_{22}	\widetilde{c}_{23}	\widetilde{c}_{24}	v_2	0	0
Total	k	\widetilde{c}^1	\widetilde{c}^2	\widetilde{c}^3	\widetilde{c}^4	0	0	0

The system of equations of state after consumption in two semi-equivalent forms: value and thing:

$$\left| \begin{array}{l} \begin{pmatrix} k_1 \\ k_1 \end{pmatrix} = \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{12} & \widetilde{c}_{13} & \widetilde{c}_{14} \\ \widetilde{c}_{21} & \widetilde{c}_{22} & \widetilde{c}_{23} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} + \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} \\ \begin{pmatrix} \text{Bread} \\ \text{Meat} \\ \text{Milk} \\ \text{Beer} \end{pmatrix} = \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{21} \\ \widetilde{c}_{12} & \widetilde{c}_{22} \\ \widetilde{c}_{13} & \widetilde{c}_{23} \\ \widetilde{c}_{14} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \sim \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{12} & \widetilde{c}_{13} & \widetilde{c}_{14} \\ \widetilde{c}_{21} & \widetilde{c}_{22} & \widetilde{c}_{23} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} \end{array} \right.$$

Variable capital is returned to the capitalists in the form of money, which has served its purpose in the current production cycle. Therefore, we leave money out of account in the thing equation of the state.

The production cycle is completed when the capitalists of the production of the means of consumption exchange constant capital in the form of food products for machines, engines, materials.

Industries I, II and III are production of the means of production. Consumption matrix.

The workers-molecules must have the same consumption and the same consumption pattern. The capitalists-molecules must have the same consumption and the same consumption pattern. But the consumption of the capitalists-molecules is distinct from the consumption of the workers-molecules in the consumption pattern and the consumption quantity.

At the moment, we do not tackle the issue of people's equality. What is critically important for us is to make production consistent with consumption. Let us assume that people's consumption is different.

We define the consumption matrix of workers:

Industries			Bread	Meat	Milk	Beer
Means of production	Industry I	Worker I	$\widetilde{W11}$	$\widetilde{W12}$	$\widetilde{W13}$	$\widetilde{W14}$
	Industry II	Worker II	$\widetilde{W21}$	$\widetilde{W22}$	$\widetilde{W23}$	$\widetilde{W24}$
	Industry III	Worker III	$\widetilde{W31}$	$\widetilde{W32}$	$\widetilde{W33}$	$\widetilde{W34}$

We define the consumption matrix of capitalists:

			Bread	Meat	Milk	Beer
Means of production	Industry I	Capitalist I	$\widetilde{B11}$	$\widetilde{B12}$	$\widetilde{B13}$	$\widetilde{B14}$
	Industry II	Capitalist II	$\widetilde{B21}$	$\widetilde{B22}$	$\widetilde{B23}$	$\widetilde{B24}$
	Industry III	Capitalist III	$\widetilde{B11}$	$\widetilde{M11}$	$\widetilde{M11}$	$\widetilde{M11}$

The value equation of state:

$$\begin{pmatrix} \widetilde{K_1} \\ \widetilde{K_2} \\ \widetilde{K_3} \end{pmatrix} = \begin{pmatrix} C11 & C12 & C13 \\ C21 & C22 & C23 \\ C31 & C32 & C33 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} + \begin{pmatrix} \widetilde{V11} & \widetilde{V12} & \widetilde{V13} \\ \widetilde{V21} & \widetilde{V22} & \widetilde{V23} \\ \widetilde{V31} & \widetilde{V32} & \widetilde{V33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} + \begin{pmatrix} \widetilde{M11} & \widetilde{M12} & \widetilde{M13} \\ \widetilde{M21} & \widetilde{M22} & \widetilde{M23} \\ \widetilde{M31} & \widetilde{M32} & \widetilde{M33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

Lemma. For industries IV and V, the condition for the value equivalence equation of constant capital in machines and food products is as follows:

$$\begin{pmatrix} c11 & c12 & c13 \\ c21 & c22 & c23 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{c11} & \widetilde{c12} & \widetilde{c13} & \widetilde{c14} \\ \widetilde{c21} & \widetilde{c22} & \widetilde{c23} & \widetilde{c24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

Equations of state of simple production:

$$\left| \begin{array}{l} \begin{pmatrix} \widetilde{K}_1 \\ \widetilde{K}_2 \\ \widetilde{K}_3 \end{pmatrix} = \left(C + \begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \right) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \\ \begin{pmatrix} \text{Machines} \\ \text{Engines} \\ \text{Materials} \end{pmatrix} = \\ = \left(\begin{pmatrix} 1 & 1 & 1 \end{pmatrix} \left(C + \begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \right) \right)^T \\ \begin{pmatrix} k_1 \\ k_1 \end{pmatrix} = \begin{pmatrix} \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{12} & \widetilde{c}_{13} & \widetilde{c}_{14} \\ \widetilde{c}_{21} & \widetilde{c}_{22} & \widetilde{c}_{23} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} + \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} \\ \begin{pmatrix} \text{Bread} \\ \text{Meat} \\ \text{Milk} \\ \text{Beer} \end{pmatrix} = \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{21} \\ \widetilde{c}_{12} & \widetilde{c}_{22} \\ \widetilde{c}_{13} & \widetilde{c}_{23} \\ \widetilde{c}_{14} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \\ \begin{pmatrix} c_{11} & c_{12} & c_{13} \\ c_{21} & c_{22} & c_{23} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{12} & \widetilde{c}_{13} & \widetilde{c}_{14} \\ \widetilde{c}_{21} & \widetilde{c}_{22} & \widetilde{c}_{23} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} \end{array} \right.$$

Theorem. The following system of equations is to be fulfilled for the operation of simple reproduction:

$$\begin{pmatrix} 1 & 1 \end{pmatrix} \begin{pmatrix} c_{11} & c_{12} & c_{13} \\ c_{21} & c_{22} & c_{23} \end{pmatrix} = \begin{pmatrix} 1 & 1 & 1 \end{pmatrix} \left(\begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} + \begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \right)$$

$$\begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{21} \\ \widetilde{c}_{12} & \widetilde{c}_{22} \\ \widetilde{c}_{13} & \widetilde{c}_{23} \\ \widetilde{c}_{14} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} = \left(\begin{pmatrix} \widetilde{B}_{11} & \widetilde{B}_{21} & \widetilde{B}_{31} \\ \widetilde{B}_{12} & \widetilde{B}_{22} & \widetilde{B}_{32} \\ \widetilde{B}_{13} & \widetilde{B}_{23} & \widetilde{B}_{33} \\ \widetilde{B}_{14} & \widetilde{B}_{24} & \widetilde{B}_{34} \end{pmatrix} + \begin{pmatrix} \widetilde{W}_{11} & \widetilde{W}_{21} & \widetilde{W}_{31} \\ \widetilde{W}_{12} & \widetilde{W}_{22} & \widetilde{W}_{32} \\ \widetilde{W}_{13} & \widetilde{W}_{23} & \widetilde{W}_{33} \\ \widetilde{W}_{14} & \widetilde{W}_{24} & \widetilde{W}_{34} \end{pmatrix} \right) \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} c_{11} & c_{12} & c_{13} \\ c_{21} & c_{22} & c_{23} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{c}_{11} & \widetilde{c}_{12} & \widetilde{c}_{13} & \widetilde{c}_{14} \\ \widetilde{c}_{21} & \widetilde{c}_{22} & \widetilde{c}_{23} & \widetilde{c}_{24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} \widetilde{V}_{11} & \widetilde{V}_{12} & \widetilde{V}_{13} \\ \widetilde{V}_{21} & \widetilde{V}_{22} & \widetilde{V}_{23} \\ \widetilde{V}_{31} & \widetilde{V}_{32} & \widetilde{V}_{33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{W}_{11} & \widetilde{W}_{12} & \widetilde{W}_{13} & \widetilde{W}_{14} \\ \widetilde{W}_{21} & \widetilde{W}_{22} & \widetilde{W}_{23} & \widetilde{W}_{24} \\ \widetilde{W}_{31} & \widetilde{W}_{32} & \widetilde{W}_{33} & \widetilde{W}_{34} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} \widetilde{M}_{11} & \widetilde{M}_{12} & \widetilde{M}_{13} \\ \widetilde{M}_{21} & \widetilde{M}_{22} & \widetilde{M}_{23} \\ \widetilde{M}_{31} & \widetilde{M}_{32} & \widetilde{M}_{33} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{B}_{11} & \widetilde{B}_{12} & \widetilde{B}_{13} & \widetilde{B}_{14} \\ \widetilde{B}_{21} & \widetilde{B}_{22} & \widetilde{B}_{23} & \widetilde{B}_{24} \\ \widetilde{B}_{31} & \widetilde{B}_{32} & \widetilde{B}_{33} & \widetilde{B}_{34} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

Proof.

The 1st equation is a condition for the thing renewal of the technological matrix for industries IV and V:

$$(1 \quad 1) \begin{pmatrix} c_{11} & c_{12} & c_{13} \\ c_{21} & c_{22} & c_{23} \end{pmatrix} = (1 \quad 1 \quad 1) \left(\begin{pmatrix} \widetilde{V_{11}} & \widetilde{V_{12}} & \widetilde{V_{13}} \\ \widetilde{V_{21}} & \widetilde{V_{22}} & \widetilde{V_{23}} \\ \widetilde{V_{31}} & \widetilde{V_{32}} & \widetilde{V_{33}} \end{pmatrix} + \begin{pmatrix} \widetilde{M_{11}} & \widetilde{M_{12}} & \widetilde{M_{13}} \\ \widetilde{M_{21}} & \widetilde{M_{22}} & \widetilde{M_{23}} \\ \widetilde{M_{31}} & \widetilde{M_{32}} & \widetilde{M_{33}} \end{pmatrix} \right)$$

In this equation, industries I, II and III sell their variable capital and surplus value to industries IV and V.

Lemma. The technological matrix of industries IV and V will be renewed.

Proof. The first columns of the equation describe the sale of machines. We obtain:

$$\left| \begin{array}{l} (1 \quad 1) \begin{pmatrix} c_{11} \\ c_{21} \end{pmatrix} = (1 \quad 1 \quad 1) \begin{pmatrix} \widetilde{V_{11}} \\ \widetilde{V_{21}} \\ \widetilde{V_{31}} \end{pmatrix} \\ c_{11} + c_{21} = \widetilde{V_{11}} + \widetilde{V_{21}} + \widetilde{V_{31}} \end{array} \right.$$

Industries I, II and III supplied the required total number of machines : $\widetilde{V_{11}} + \widetilde{V_{21}} + \widetilde{V_{31}}$.

Industries IV and V divided the total value in the ratio of $c_{11} : c_{21}$. The same goes for engines and materials.

Results. The technological matrix of industries IV and V has been renewed in the form of thing.

The 2nd equation is the sale of constant capital in the form of food products to industries I, II and III:

$$\begin{pmatrix} \widetilde{c_{11}} & \widetilde{c_{21}} \\ \widetilde{c_{12}} & \widetilde{c_{22}} \\ \widetilde{c_{13}} & \widetilde{c_{23}} \\ \widetilde{c_{14}} & \widetilde{c_{24}} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \left(\begin{pmatrix} \widetilde{B_{11}} & \widetilde{B_{21}} & \widetilde{B_{31}} \\ \widetilde{B_{12}} & \widetilde{B_{22}} & \widetilde{B_{32}} \\ \widetilde{B_{13}} & \widetilde{B_{23}} & \widetilde{B_{33}} \\ \widetilde{B_{14}} & \widetilde{B_{24}} & \widetilde{B_{34}} \end{pmatrix} + \begin{pmatrix} \widetilde{W_{11}} & \widetilde{W_{21}} & \widetilde{W_{31}} \\ \widetilde{W_{12}} & \widetilde{W_{22}} & \widetilde{W_{32}} \\ \widetilde{W_{13}} & \widetilde{W_{23}} & \widetilde{W_{33}} \\ \widetilde{W_{14}} & \widetilde{W_{24}} & \widetilde{W_{34}} \end{pmatrix} \right) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

Lemma. Selling food products is a real sale.

The first lines describe the sale of bread. We obtain:

$$\left| \begin{array}{l} (\widetilde{c_{11}} \quad \widetilde{c_{21}}) \begin{pmatrix} 1 \\ 1 \end{pmatrix} = ((\widetilde{B_{11}} \quad \widetilde{B_{21}} \quad \widetilde{B_{31}}) + (\widetilde{W_{11}} \quad \widetilde{W_{21}} \quad \widetilde{W_{31}})) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \\ c_{11} + c_{21} = (\widetilde{B_{11}} + \widetilde{B_{21}} + \widetilde{B_{31}}) + (\widetilde{W_{11}} + \widetilde{W_{21}} + \widetilde{W_{31}}) \end{array} \right.$$

We sold actual bread. The same goes for meat, milk and beer.

Conclusion. The sale is real.

Lemma. The exchange of machines, engines and materials for food products is an equivalent value exchange.

Proof. Let us consider the 1st line of the equation:

$$\begin{pmatrix} \widetilde{V_{11}} & \widetilde{V_{12}} & \widetilde{V_{13}} \\ \widetilde{V_{21}} & \widetilde{V_{22}} & \widetilde{V_{23}} \\ \widetilde{V_{31}} & \widetilde{V_{32}} & \widetilde{V_{33}} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{W_{11}} & \widetilde{W_{12}} & \widetilde{W_{13}} & \widetilde{W_{14}} \\ \widetilde{W_{21}} & \widetilde{W_{22}} & \widetilde{W_{23}} & \widetilde{W_{24}} \\ \widetilde{W_{31}} & \widetilde{W_{32}} & \widetilde{W_{33}} & \widetilde{W_{34}} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

We obtain:

$$\left| \begin{array}{l} (\widetilde{V11} \quad \widetilde{V12} \quad \widetilde{V13}) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = (\widetilde{W11} \quad \widetilde{W21} \quad \widetilde{W13} \quad \widetilde{W14}) \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} \\ \widetilde{V11} + \widetilde{V12} + \widetilde{V13} = \widetilde{W11} + \widetilde{W12} + \widetilde{W13} + \widetilde{W14} \end{array} \right.$$

The industry I exchanged its machines for food products. This exchange was equivalent since the industry I received the same variable capital that it had. At this point, the variable capital is in the form of food products, which can be sold to the workers. The same goes for industries II, III and for the exchange of surplus value for food products.

We consider the 3rd equation:

$$\begin{pmatrix} c11 & c12 & c13 \\ c21 & c22 & c23 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} \widetilde{c11} & \widetilde{c12} & \widetilde{c13} & \widetilde{c14} \\ \widetilde{c21} & \widetilde{c22} & \widetilde{c23} & \widetilde{c24} \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix}$$

The 1st line of this equation is as follows:

$$\left| \begin{array}{l} (c11 \quad c12 \quad c13) \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = (\widetilde{c11} \quad \widetilde{c12} \quad \widetilde{c13} \quad \widetilde{c14}) \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} \\ c11 + c12 + c13 = \widetilde{c11} + \widetilde{c12} + \widetilde{c13} + \widetilde{c14} \end{array} \right.$$

On the left, there are machines bought by industry IV, on the right – food products sold by industry IV. Equality means that the exchange was equivalent. The same goes for industry V.

In Marx's scheme, the constant capital of industries IV and V is exchanged for variable capital and the surplus value of industries I, II and III. This scheme remains the same if there are several industries. However, we need to add the conditions for the thing exchange and the technological matrix reproduction. Why is everything complicated?

Lemma. Generally, the exchange matrix is three-dimensional. That is why it is impossible to present the exchange in the form of two-dimensional matrices.

Proof. Industries produced variable capital to exchange it for food products.

Industries	Variable capital to exchange for food products		
	Machines	Engines	Materials
Industry I	$\widetilde{V11}$	$\widetilde{V12}$	$\widetilde{V13}$
Industry II	$\widetilde{V21}$	$\widetilde{V22}$	$\widetilde{V23}$
Industry III	$\widetilde{V31}$	$\widetilde{V32}$	$\widetilde{V33}$

Let the industry I exchange its machines, engines and materials for food products. The exchange matrix for industry I is as follows:

$$\left| \begin{array}{l} \begin{pmatrix} \text{Industry IV} \\ \text{Industry V} \end{pmatrix} = \begin{pmatrix} a11 & a12 & a13 \\ a21 & a22 & a23 \end{pmatrix} \\ \begin{pmatrix} \widetilde{V11} \\ \widetilde{V12} \\ \widetilde{V13} \end{pmatrix} = \begin{pmatrix} a11 + a21 \\ a12 + a22 \\ a13 + a23 \end{pmatrix} \end{array} \right.$$

A similar matrix is to be created for industries II and III. At that point, the general exchange matrix will be three-dimensional. Its elements will have three indices.

Lemma. In the general case, the matrix of the value transfers from the old constant capital to the new one is three-dimensional.

Is it possible to simplify the model? All workers can be considered identical molecules with a fixed consumption. The same goes for capitalists.

Question. Why were the authors able to make a shift without three-dimensional matrices?

Answer. The authors introduced collective exchange. But all the same, the theorems need further simplification and schematization. We should not model Marx's CAPITAL with no universal schematization.

What are Marx's next steps?

1. Consideration of the extended reproduction model;
2. Introduction of money circulation into this model;
3. Introduction of banks into the model;
4. Introduction of stocks into the model;
5. Introduction of class models etc.

Marx obtained all the necessary formulas and studied the logic of processes.

§ 13.6. Marx's scheme of simple reproduction adjusted for the number of workers

Political economic meaning of the universal fundamental constant of value.

All calculations are conditional.

Lemma. Fundamental constant of value p is equal to the new value created by the worker in 1 labour hour.

An approximate calculation of the fundamentally constant for the U.S. is performed. We obtain:

$$p = 2.55 \frac{\text{gram of gold}}{\text{labour hour}}$$

Let us assume that the gold price is 50 dollars per gram. Let the average labour price in the U.S. be:

$$v = 20 \frac{\text{dollars}}{\text{labour hour}} = 0.4 \frac{\text{gram of gold}}{\text{labour hour}}$$

Lemma. The surplus value produced by an American worker in 1 labour hour is calculated using Marx's formula:

$$p = m + v \Rightarrow m = p - v = 2.55 - 0.4 = 2.15 \frac{\text{gram of gold}}{\text{labour hour}}$$

Notation	Variable	Value	Measurement unit
p	The fundamental constant of value in the U.S.	2.55	$\frac{\text{gram of gold}}{\text{labour hour}}$
d	Annual labour hours in the U.S.	1780	Labour hour
pd	New value created by one worker	$2.55 * 1780 = 4539$	Gram of gold
s	Gold price	50	$\frac{\text{dollar}}{\text{gram of gold}}$
θ	Hourly price of labour power in the	20	

	U.S. Average hourly wage in the U.S. (in dollars)		$\frac{\text{dollar}}{\text{labour hour}}$
θ	Hourly price of labour power (in gold)	$\frac{20}{50} = 0.4$	$\frac{\text{gram of gold}}{\text{labour hour}}$
$d\theta$	Annual price of labour power (in gold)	$1780 * 0.4 = 712$	Gram of gold
	Annual price of labour power (in dollars)	$1780 * 20 = 35600$	Dollar
$p - \theta$	Surplus value per labour hour (in gold)	$2.55 - 0.4 = 2.15$	$\frac{\text{gram of gold}}{\text{labour hour}}$
$(p - \theta)d$	Annual surplus value (in gold)	$2.15 * 1780 = 3827$	Gram of gold

From there, the average American produces 4,539 kg of gold per year and receives 0.712 kg of gold.




Let us introduce the number of workers into the scheme of simple production.




Industries I, II and III are production of means of production. The end of the year.
All values and prices are in grams of gold.

Industries	Capital of industries	Constant capital in the form of thing. Machines, engines and materials are newly created			Variable capital in a form of thing	Surplus value in a form of thing	Number of workers	The workers receive money. Their money is not capital
		Machines	Engines	Materials				
I	\widetilde{K}_1	$\widetilde{C11}$	$\widetilde{C12}$	$\widetilde{C13}$	\widetilde{V}_1	$\widetilde{M}_1 = (p - \theta)N_1d$	N_1	$\widetilde{V}_1 = N_1d$
II	\widetilde{K}_2	$\widetilde{C21}$	$\widetilde{C22}$	$\widetilde{C23}$	\widetilde{V}_2	$\widetilde{M}_2 = (p - \theta)N_2d$	N_2	$\widetilde{V}_2 = N_2d$
III	\widetilde{K}_3	$\widetilde{C31}$	$\widetilde{C32}$	$\widetilde{C33}$	\widetilde{V}_3	$\widetilde{M}_3 = (p - \theta)N_3d$	N_3	$\widetilde{V}_3 = N_3d$

The same changes will be made in industries IV and V.

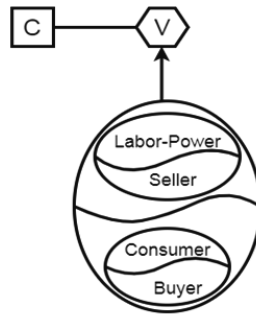
§ 13.7. Modeling simple reproduction according to Marx's scheme

Icons	Meaning of icons
	Capital in the form of things, machines, engines, and materials
	Variable capital in the form of money
	Newly created capital in the form of things, machine, engines, and materials

	Variable capital in the form of workers, living people
	Production process
	Newly created capital in the form of food products

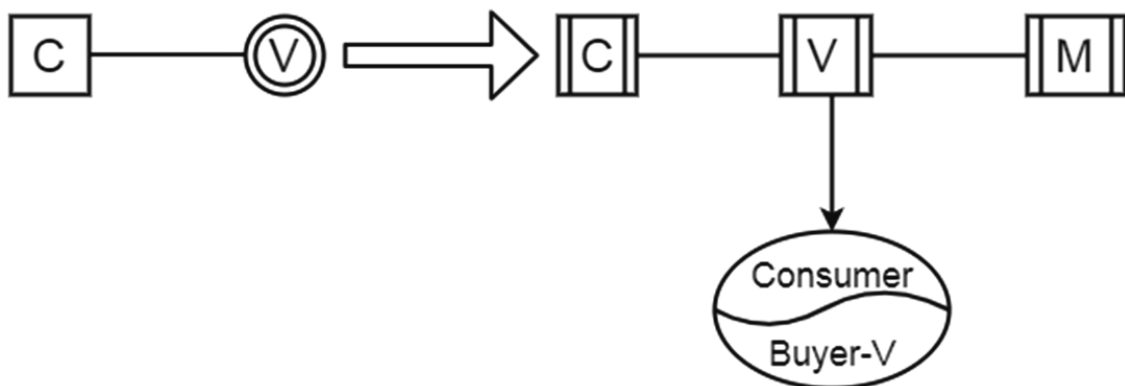
Industries I, II, III are production of means of production.

Step 1. Purchase of labour-power. Workers sell their commodities (their labour-power), but they do not get money. The workers advance the capitalists. Variable capital changes its shape. Variable capital takes the form of living people, living workers.

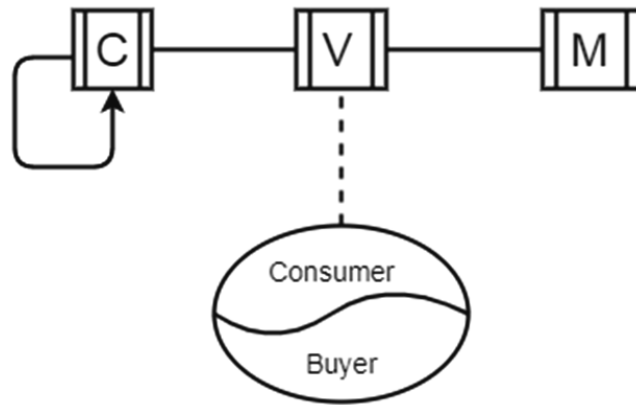


Step 2. Production. Variable capital takes the form of living people, living workers.

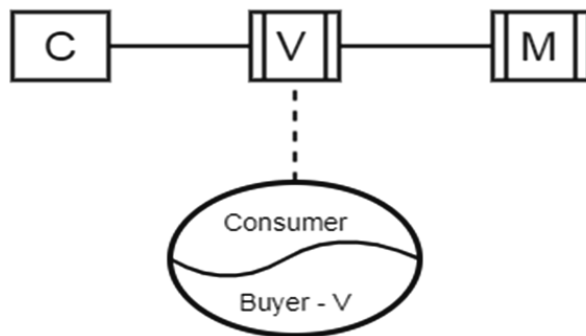
Depreciation. Old machines disappear and the old technology matrix is gone. Workers create new machines. New constant capital, new variable capital, and new surplus value have the thing form. They exist in the form of new machines, engines, and materials. The workers transfer the old value of constant capital to the new constant capital. The value of constant capital is not created, but transferred. Workers create new value: variable capital and surplus value.



Step 3. There is exchange of old constant capital for new constant capital. Industries I, II, III exchange elements of constant capital among themselves. Exchange is equivalent. Nobody wins, nobody loses. Technological matrix is resumed.

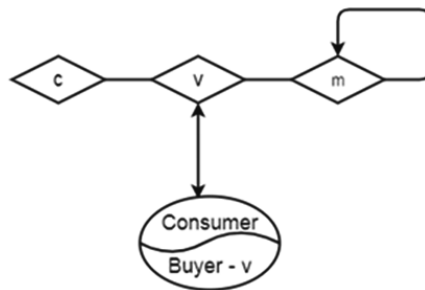


Step 4. Payment of money to workers for the commodity (labour power). The technological matrix is resumed. The workers get money.



Industries IV and V are production of consumer products.

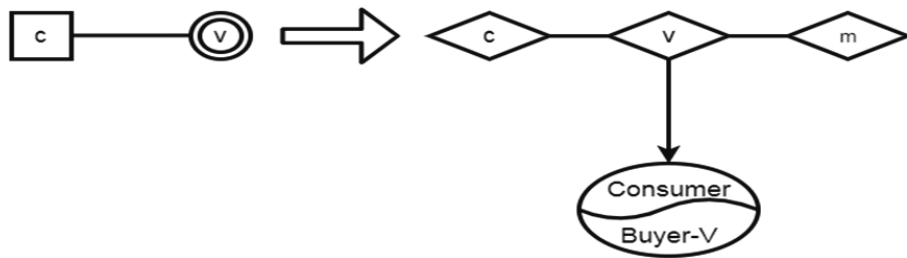
Step 1. Purchase of labour-power. Workers sell their commodities (their labour-power), but they do not get money. The workers advance the capitalists. Variable capital changes its shape. Variable capital takes the form of living people, living workers.



Step 2. Production. Variable capital takes the form of living people, living workers.

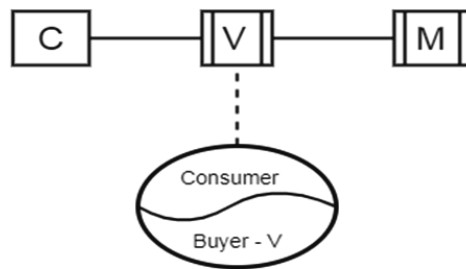
Depreciation. Old machines disappear and the old technological matrix is gone. Workers create consumer products.

New constant capital, variable capital, and surplus value are in the form of food products. The workers do not create the value of the new constant capital. They transfer the value of new constant capital from machines, engines, materials to constant capital in the form of food products. Workers create new value: new variable capital and surplus value.

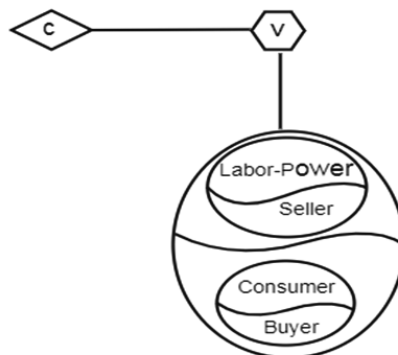


Step 3. Consumption. The capitalists eat their surplus value. Workers get money for a commodity (labour-power). This money is not capital in the hands of the workers, because the workers exchange money for food products. Workers eat food, and money returns to the capitalists and turns into variable capital again.

Industries I, II, III are production of means of production. Variable capital and surplus value exist in the form of machines, engines, and materials.



Industries IV and V are production of consumer products. The constant capital exists in the form of food products. There is no more variable capital in this production cycle. The variable capital exists in the money form, but it is intended for the next cycle of production, which is the last for it.



Marx's theorem on simple production.

The value theorem. It is necessary and sufficient to fulfill equality in value form for the functioning of simple production in value form:

$$\diamond c = \boxed{V} + \boxed{M}$$

The thing theorem. It is necessary and sufficient to fulfill equality in thing form for the functioning of simple production in thing form:

$$\diamond c = \boxed{V} + \boxed{M}$$

The results of the exchange according to Marx's theorem.

Industries IV and V are production of consumer products. As a result of the exchange, they receive the necessary machines, engines, and materials. The technological matrix of these industries is resumed. The production cycle ends and they are ready for a new cycle.

Industries I, II, III are production of means of production. As a result of exchange, the capitalists exchange surplus value in the form of machines for surplus value in the form of food products and eat it.

They also exchange variable capital in the form of machines for variable capital in the form of food products. Workers buy food and money in the form of variable capital returns to the capitalists of industries I, II, III. The production cycle ends and they are ready for a new cycle.

The contradiction of the model. The capitalist has variable capital in the form of money V . He buys labour power in the amount of V . This means that the capitalist temporarily has a variable capital equal to $2V$. But then the results of all calculations change. What should we do then?

We assume that the production process is continuous. Money is received and spent in small portions. There is no contradiction in the continuous model.

However the continuous model is described by differential equations and it is necessary to translate the production model of Marx into a system of differential equations.

§ 13.8. List of authors' books: Book I, Book II, Book III, Book IV, Book V

The authors have four more books written. Here are their summaries.

LIST OF AUTHORS' BOOKS:

1. Book I: Marx's capital is political economic thermodynamics. The law of value is the ideal gas law (Originally: Капитал Маркса это политэкономическая термодинамика. Закон стоимости это уравнение Менделеева-Клайперона).
2. Book II: Mathematized Hegel's dialectic (Originally: Математизированная диалектика Гегеля).
3. Book III: The political economic world of Marx-Engels (Originally: Политэкономический мир Маркса-Энгельса).
4. Book IV: Lenin completely built the political economy of both communism and socialism (Originally: Ленин полностью построил политэкономия и коммунизма, и социализма).
5. Book V: Marx's theory of the universal man or every child is a genius (Originally: Теория универсального человека Маркса или каждый ребенок гений).

Chapter XIV. The contents of the author's book II: "MATHEMATIZED HEGEL'S DIALECTICS"

§ 14.1. Introduction of abstract dialectical pairs A-B instead of concrete pairs

The task of "creating dialectics" was set by Lenin. It was necessary to formalize Hegel's dialectical logic and turn it into mathematical logic or into an analogue of mathematical logic. The authors have completed the preparatory stage of this great task.

The results of the work are as follows:

- a) The authors introduced abstract dialectical pairs: A–B, D–F, and introduced operations of multiplication of dialectical pairs.
- b) The authors stated all the laws of philosophy for an abstract dialectical pair.
- c) The authors created the science of DEVELOPMENT in the book "Mathematized Hegel's dialectics".

The principle of DEVELOPMENT is not only the principle of continuity. This is a whole science dual to Hegel's "Science of Logic", which means that it must contain as many theorems as Hegel's "Science of Logic".

Mathematics is divided into the science of Logic and the Science of Mathematical Analysis. Logic studies the discrete world, and Mathematical Analysis studies the continuous world. However, the World is one and only, and there is the law of the UNITY of the WORLD. Therefore, the discrete world and the continuous world are sides of the same World.

Philosophy is also divided into the Science of Logic and the science of DEVELOPMENT. Hence, the science of DEVELOPMENT is a mathematical analysis of philosophy, and we need to draw graphs of the theorems of philosophy in the science of DEVELOPMENT. But no one did it. So, there is no science of development yet.

In the science of DEVELOPMENT in the book "Mathematized Hegel's dialectics" the authors' drawings are as follows:

- 1. All drawings accurately reflect Hegel's laws.
- 2. All drawings have rough edges that mean catastrophe. They have great resemblance to the drawings of the creators of Catastrophe Theory, mathematicians Vladimir Arnold and Rene Thom. Why? It is so according to Lenin's theory "Dialectics is the science of catastrophe".

To be more precise, the authors laid the foundation for the science of DEVELOPMENT.

The authors paved the way for the COMPLETE MATHEMATIZATION OF HEGEL'S DIALECTICS. It is necessary to create an alphabet, language, inference rules, and also to introduce additional algebraic operations on dialectical pairs. The authors have partially completed this work.

GREAT MATHEMATICS-LOGICS ARE NEEDED HERE

However, the mathematized dialectic cannot be created by analogy with mathematical logic. It is impossible to create it deductively.

§ 14.2. The main discovery of Hegel is the discovery of “EVOLUTION of CATEGORIES AND LAWS (IDEAS)”

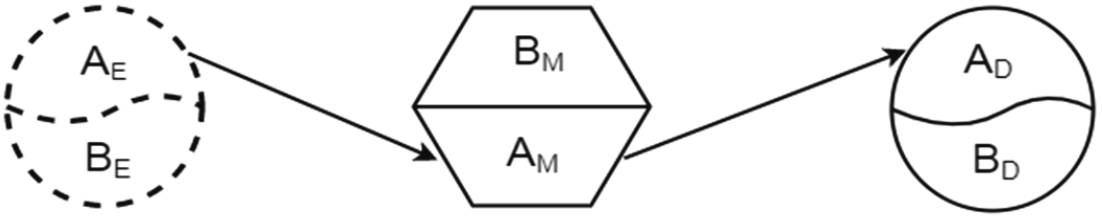
Hegel discovered the LOGICAL EVOLUTION OF CATEGORIES AND LAWS (IDEAS) long before Darwin. According to Hegel, categories and laws are living beings. They are born, bloom and die.

How to explain the greatness of Hegel? Hegel considered ink categories to be living beings when stupid humanity considered living nature to be dead and not evolving. So, Hegel is an EVOLUTIONIST. And he created the theory of LOGICAL EVOLUTION long before Darwin!

Hegel's evolutionary theorem. Logical evolution of Hegel.

Theorem.

1. Dialectical categories are living beings. They are born.
2. Categories are always born in pairs.
3. At birth, any category goes through the way of an evolutionary triad in logical time.
4. Any category first germinates in the form of an embryonic category. Then the category becomes a dead rigid category. Finally, it becomes a living dialectical category. The category is born!
5. The birth of categories outside the logical triad is impossible.

The logical evolution of Hegel. Hegel's evolutionary triad:		
		
Embryonic dialectics	Metaphysics	Dialectics
Embryonic categories	Metaphysical categories	Dialectical categories
A living, but embryonic world	The world of the dead	The world of the living
Embryonic categories are without clear boundaries. They are clouds.	There are dead, rigid categories. Constants.	There are living, ever-changing categories. Functions of logical time.
Embryonic categories	Metaphysical categories	Dialectical categories
How did speech originate in primitive man? How did the first words and sentences originate in primitive man? The answer according to Hegel's triad:		
Words _E	Words _M	Words _D
The words were embryonic. They were words-clouds. Each word could have dozens of meanings. The meanings of words could change. Words were born in pairs.	The pairs turned over on their way to the world of Metaphysics. The words became dead, rigid. The meanings of words have become clear and de-	On the way to the world of Dialectics, the metaphysical pairs turned over. Dead metaphysical words began to come to life. They began to connect with each other. And under the influence of neighbors, the val-

	<p>fined.</p>	<p>ues could be adjusted now. A sentence was born. The sentence is a living word. The sentence is a flying word. Categories were born.</p>
<p>After birth, the dialectical pair begins to rotate. Continuous transitions: $A_{D1} \rightarrow B_{D1} \rightarrow A_{D2} \rightarrow B_{D2} \rightarrow A_{D3} \rightarrow B_{D3}$ ****. Example. Transitions: wave \leftrightarrow particle.</p>		
<p>Theorem. It is necessary to pass through the dead realm of metaphysics on the way to the living world of dialectics. Russian legends: ABOUT DEAD AND LIVING WATER. A dead hero (bogatyry) must drink dead water of metaphysics in order to come to life. And then it is necessary to drink the living water of dialectics. So the hero will come to life. In Russian legends, dead water is needed to make the bones of the hero grow together. The living water is a SOUL-IDEA, which the dead hero must drink.</p>		
<p>Hegel's doctrine is the doctrine of the dead and living water of humanity. If dead humanity drinks the living water of dialectics, it will come to life. And then the universal humanity-hero will be born.</p>		

Question. Is it true that Hegel pointed out the laws of the birth of ancient Spaniards' words?

No, it is not true. Why?

There is the theorem of the great Engels. The laws of political economy are statistical. It means:

1. A specific phenomenon could be random. It may not obey general laws.
2. But the more statistics, the stronger the general laws are.

What did Hegel discover? Hegel discovered a general (logical!) scheme for the origin of speech of all ancient peoples. Hegel is neither a historian nor a linguist. Hegel is a LOGICIAN! Marx, Engels, Lenin are also the greatest LOGICIANS. They are actually mathematicians.

Hegel discovered not only logical evolution, but he also discovered all the laws of logical evolution. And this means that Hegel discovered EVERYTHING! He discovered all the general laws of all sciences.

When we independently discovered the evolution of categories, we became proud. Each of us thought: "Are we close to Hegel now?". But the leader of the dialecticians hit us on the heads with a magic hammer.

According to Hegel: "Philosophy does not study categories. It studies the evolution of IDEAS!"

And we became small as microbes and looked up in amazement at the cosmic figure of the leader of mankind. We were proud of what Hegel, it turned out, did not do.

Hegel worked with much more complex tasks – the evolution of IDEAS. And it means that the level of abstractness of Hegel's thinking is much greater than ours. And we again began to crawl along the leader's legs on his shoulders.

§ 14.3. Hegel's discovery of the LOGICAL VACUUM

Hegel introduced the concepts of LOGICAL VACUUM and the laws of logical vacuum two hundred years before the physicists. It is clear that the first categories must emerge from a logical vacuum.

§ 14.4. The logical theory of catastrophes was created by Hegel. He is the first scientist-CATASTROPHIST on the planet

Lenin's theorem: "Dialectics describes CATASTROPHIC PROCESSES".

According to Lenin: "DIALECTICS is the SCIENCE of CATASTROPHES".

It means that the creator of the new science "CATASTROPH THEORY" is Hegel, and neither mathematician Arnold nor mathematician Tom. Hegel is the first scientist on the planet with CATASTROPHIC THINKING.

Today, catastrophic processes are taking place on the planet. The time has come for Hegel's dialectic; the magical hour of the SECOND COMING OF THE LEADER OF MANKIND has come. Our Thor returned with the second coming, as he promised to return in Germanic myths.

Philosophical theory of catastrophes

- 1) Catastrophes are rare in nature and society.
- 2) All great events are ALWAYS a huge leap, i.e., CATASTROPHE.
- 3) So the CATASTROPHES contain the ESSENCE of all processes.

The universe was born instantly with a big bang. Life on the planet was born by a biological thermonuclear explosion. Huge planets, that swallowed by a black hole, died instantly.

The great USSR also died instantly. According to the theory of catastrophes, there is a great mystery in the death of the USSR.

Theorem. Socialism died of old age. The death of the great USSR means that socialism is outdated, and the epoch of socialist revolutions has passed into history.

The new epoch is the epoch of pure communism and pure communist revolutions. History has reached the finish line of mankind.

COMMUNISM will be built by a direct, peaceful, dialectical revolution, bypassing socialism.

Socialism was only a GHOST of communism, and now real communism is going to come. This is the secret of the catastrophe of socialism.

According to Hegel, mankind can perish within one day.

Dumb and greedy humanity has started the process of global warming. And not many people understand that global warming is a DEATH MACHINE. And it is picking up speed.

Humanity will die instantly. The temperature rises a little every year. But according to Hegel's theory of CATASTROPHE, there will come a time when the temperature of the planet will rise in a single stroke. And on that day, all the people of the planet will understand that it is the end of humanity and we need to prepare its funeral. Humanity has no time anymore.

LENIN: "HUMAN POWER is UNLIMITED"

The power of more than seven billion people is unlimited. This power is enough to seed the universe with life. Only the collective power of all humanity can save the planet. We need the GLOBAL COMMUNISM, not socialism.

There is life in the Universe, and it will be found. But there is no life in our galaxy. Otherwise, we would see it and it would see us. If we die because of greed and stupidity, then a universal tragedy

will happen. Intelligent life in the universe will perish. Today we have the battle not for Russia or Germany, and not even for the blue planet.

The BATTLE is for LIFE in the UNIVERSE.

This battle is not with enemies, but with our stupidity and elitism.

IDEALISM of Hegel.

It is necessary to kill not people, but it is necessary to kill DARK IDEAS of elitism: the idea of riches, the idea of gluttony, the idea of commanding.

This is the secret of human history.

DARK IDEAS must be KILLED in OURSELVES, as the Great Che Guevara did it! Che Guevara was a minister, and on weekends he worked as a loader. Command of the leader: "Kill the dark ideas in yourself"

Lenin: "WE MUST EMBODY the IDEA in OURSELVES"

Lenin: "I am the same as EVERYONE".

Hegel's most general definition of PRIVATE PROPERTY

Note. Private property is the property of one person.

Hegel's theorem. Any DEAD, permanent, and METAPHYSICAL category is a PRIVATE PROPERTY (metaphysical).

All METAPHYSICS is private property.

Left-wing intellectuals are fighting for a socialist state. They all angrily denounce capitalism: "We will destroy private property".

But they do not understand that all positions: a general secretary, a secretary, and a director are real private property, which Marx bequeathed to destroy.

Socialist money, the permanent division of LABOUR under socialism, and the permanent management system are also private property. Since all these categories are RIGID, PERMANENT, DEAD – they are metaphysical.

Millions of left-wing theorists of the socialist state are not able to study at least one theory of Hegel. They are dead in the political economy. They are a clear proof that the epoch of socialism has gone down in history.

Engels: "The state is the private property of the bureaucracy".

The entire state is the private property of individuals. The state was born as the private property of lords or princes.

Results. Hegel's theorem. Any metaphysical dead category is private property. And so it must be destroyed. A living dialectical category will be born in its place.

The Hegel's definition has the highest level of abstractness. There is nothing higher than Hegel. All categories of Hegel in dozens of his books also have the highest level of abstractness.

Do you realize the cosmic dimensions of Hegel's brain? Hegel is literally the new THOR.

WHY DO NOT WE HAVE COMMUNISM TODAY?

In the end, both capitalism and socialism are metaphysical, i.e. dead societies. Their collective consciousness is the consciousness of the dead. And the dead are unable to understand the living world

of dialectics. The dead world is their ideal one. They consider the living world to be chaos. The dead are hostile to the living world. And the dead consider themselves alive.

The supporters of socialism are pyramid-headed. Their brains have dried up in the form of a pyramid of power.

The pyramids of Egypt are monuments to all the great statesmen: Pharaoh Ramses, Frederick the Great, Stalin. But the epoch of the pyramids has gone down in history.

Lenin said: “Only the young can build communism”. Why? Young people are living, their hearts are still beating. Their brains have not dried up in the form of a pyramid yet.

In order to come to life, people need to drink the living water of Hegel’s dialectics, as a doctrine of a changing world. It is difficult to be the first. The first one will revive the second.

Revive, the dead, revive. Drink the living water of Hegel’s dialectics and revive. The Russian legends are true. There is the living water, and it is created by the great Hegel, the leader of mankind.

No one could understand Hegel’s DIALECTICS as the doctrine of the VARIABLE WORLD, i.e. COMMUNISM. The dead love dead and permanent categories. The dead hate variable categories.

The huge logical hammer of the new Thor has been waiting for two hundred years, and no one in the world can lift it!

The German legend of Thor’s hammer turned out to be true. And there is no great hero who could lift the logical hammer of the new Thor – Hegel.

There is the mech-kladenets, a fabulous magic sword in Russian fairy tales. It is rendered “sword of steel” or “magic sword” in English translations. And this legend of the Russians turned out to be true. We HAVE the sword, and its name is “HEGEL’S DIALECTICS AS A DOCTRINE ABOUT A VARIABLE WORLD”. But it is heavy, and there is no hero in Russia who could lift this sword.

Neither physicists nor mathematicians have built a single triad. But Hegelian triads must be constructed for all categories. Any category can be born only through a triad. There is no dual set theory in mathematics, and it is weird. After all, all categories exist in pairs.

The law of pair	
in metaphysics	in dialectics
Thing _M – Relation _M	Thing _D – Relation _D
Definition of the Thing _M category	Definition of the Thing _D category
Thing _M is Thing _M	Hegel’s theorem: Thing _D is Relation _D . Here we have a transition: Relation _D → Thing _D .
Thing _M is not Relation _M	Deciphering Hegel’s theorem
Definition of the Relation _M category	Hegel’s theorem. THING is the totality of all RELATIONS in the world of ESSENCES.
Relation _M is Relation _M	Marx’s theorem. Definition of a human in political economy: Human is the totality of all PRODUCTION RELATIONS.
Relation _M is not Thing _M	

Hegel’s theorem on THING in mathematics

There is SET. The set as a THING is the set. But RELATION for set is an arbitrary mapping of a given set to any other set.

Hegel’s theorem: A SET is a totality of all MAPPINGS.

Metaphysics	Dialectics
Zermelo–Fraenkel set theory	Set theory based on topoi (functors, mappings). The appearance of topoi in mathematics is a great dialectical revolution. The leader of the revolution is the great mathematician Jacob Lurie. The topoi theorem. A set is the totality of all mappings.
Thus, the appearance of topoi is the appearance of dialectics in mathematics.	

The complexity of the Zermelo–Fraenkel axioms.

Question: “Is it possible to abandon logic in first-order set theory?”

It is possible. It is necessary to give a name to each set and form the set of names as a dual space. So the logic becomes unnecessary, but the logic is needed in second-order set theories.

Are there any axioms of the most abstract set theory?

Let’s slightly change Hegel’s theorem.

Hegel’s theorem	Modified Hegel’s theorem
Theorem. Thing is the totality of all relations.	Theorem. Thing is the totality of all properties.

Sets have the following properties:

1. Commutativity;
2. Associativity;
3. Distributivity;
4. Idempotence;
5. De Morgan’s laws;

Etc.

Here we choose basic properties from these properties, discard the rest of the properties, and give a definition of the most abstract set theory.

Definition. The totality of objects is called the set system if the objects have the specified basic properties.

There is no point in such a set theory, but we can enter some points:

- 1). $a \in A \Rightarrow a \in A \cup B \quad \forall B$;
- 2). $a \in A, a \in B \Rightarrow a \in A \cap B$;
- 3). $a \in A, A \subset B \Rightarrow a \in B$.
- 4). $a \in A \Rightarrow a \notin \bar{A}$.

Definition. The totality of objects and points is called the set system if the objects and points have the specified basic properties.

The infinitesimal problem caused a crisis in mathematics that lasted more than two hundred years. Marx tried to overcome the crisis in mathematics and solve the infinitesimal problem. He learnt the works of Lagrange and other mathematicians, but he could not solve the infinitesimal problem. The infinitesimal problem was solved by Cauchy.

So, the mathematical works of Marx are published, there are useful ideas for mathematics. Marx suggested defining the differentiation operator through its main characteristic property: $d(UV) = VdU + UdV$. Now in differential geometry, the operator of differentiation is defined in the same way as Marx suggested.

The authors decided to imitate Marx. Following Marx, they gave the axioms of set theory based on the basic properties of sets.

Lenin and Marx. The state thing fetishism is the reason for the defeat of socialism in the USSR. State fetishism does not allow people to understand the theory of communism.

Lenin. The work "The State and Revolution" (1917).

Но вкратце остановиться еще раз на некоторых чертах этой замены было здесь необходимо, потому что как раз в Германии суперверная вера в государство перешла из философии в общее сознание буржуазии и даже многих рабочих.

Image translation: But it was necessary to touch briefly here once more on some of its features, because in Germany particularly the superstitious belief in the state has passed from philosophy into the general consciousness of the bourgeoisie and even of many workers.

According to Marx, Engels and Lenin, communism can be built quickly. So, the state is no longer needed.

"Итак, государство существует не извечно. Были общества, которые обходились без него, которые понятия не имели о государстве и государственной власти. На определенной ступени экономического развития, которая необходимо связана была с расколом общества на классы, государство стало в силу этого раскола необходимостью. Мы приближаемся теперь быстрыми шагами к такой ступени развития производства, на которой существование этих классов не только перестало быть необходимостью, но становится прямой помехой производству. Классы исчезнут так же неизбежно, как неизбежно они в прошлом возникли. С исчезновением классов исчезнет неизбежно государство. Общество, которое по-новому организует производство на основе свободной и равной ассоциации производителей, отправит всю государственную машину туда, где ей будет тогда настоящее место: в музей древностей, рядом с прялкой и с бронзовым топором".

Image translation: "The state, then, has not existed from all eternity. There have been societies that did without it, that had no idea of the state and state power. At a certain stage of economic development, which was necessarily bound up with the split of society into classes, the state became a necessity owing to this split. We are now rapidly approaching a stage in the development of production at which the existence of these classes not only will have ceased to be a necessity, but will become a positive hindrance to production. They will fall as they arose at an earlier stage. Along with them the state will inevitably fall. Society, which will reorganize production on the basis of a free and equal association of the producers, will put the whole machinery of state where it will then belong: into a museum of antiquities, by the side of the spinning-wheel and the bronze axe."

The blame is on the left-wing intelligentsia. Hegel's dialectics has been ready for 200 years. And the left-wing intelligentsia does not understand a single word of Hegel. Left-wing intellectuals are primitive fetishists.

Theorem. Thing fetishism is an inverting lens.

All left-wing intellectuals are convinced that they are the brains of the people, as they studied Marx. Lenin turned over this statement.

Lenin said: “Intellectuals are not the brain of the nation, they are shit”.

Left-wing intellectuals act as if they are in 1917. What’s a comedy!

Hegel’s theorem. “Great historical events in history occur for the first time in the form of drama and tragedy, and the second time in the form of comedy”.

It is the opposite. The workers are immeasurably smarter than the socialist leaders. They are ready for communism. They are waiting for communism. However, the left-wing leaders are a hundred years behind the workers.

Pure communism could have been built in 1871, if the Paris Commune had won. With the help of Marx it was possible to jump over socialism.

How?

It is necessary to organize a factory-Commune. Productivity of labour will increase dramatically. All people will see it and will understand that chiefs only slow them down.

The most general definition of a communist (not socialist) revolution from Hegel

Theorem. The communist revolution is a dialectical revolution.

Description.

According to Hegel’s idealism, the communist revolution is an IDEAL revolution, it is an uprising of an IDEA.

The communist revolution is the uprising of the living against the dead. The purpose of the uprising is to revive the dead, to revive the dead humanity.

§ 14.5. Hegel predicted the birth of the USSR with the doctrine of LOGICAL MONARCHY

Hegel, Marx, Engels, Lenin are LOGICIANS, i.e., MATHEMATICIANS. Humanitarians do not understand their works.

All Hegel’s categories mean ABSOLUTELY NOT what is ACCEPTED in society.

For Hegel, FREEDOM is not that freedom, RELIGION is not that religion, NATIONALITY is not that nationality, FAMILY is not that family, MONARCH is not that monarch that in history, Hegel’s MONARCHY is not a historical monarchy.

All categories of Hegel are only LOGICAL!

Hegel predicted the coming of the Great Socialist State and Stalin with his doctrine of LOGICAL MONARCHY.

Hegel’s theorem. THE HIGHEST FORM OF STATE is MONARCHY.

The word MONARCHY means LOGICAL MONARCHY, and the category THE HIGHEST means the highest in logic! “The highest” does not mean “the best” according to Hegel!

Hegel had nothing to do with historical monarchy. There was no Hegel historian. But in the history of mankind there was only one LOGICAL MONARCHY with 100% MONOCRACY. And this was the Great Stalinist State.

Hegel and Lenin created the THEORY OF PERSONIFICATION.

Hegel's theory of personification is the doctrine of the MONARCHY. Hegel is a Logician. He does not study historical monarchies.

Lenin's theory of personification.

Lenin's theorem. The will of a class can be expressed in the will of ONE PERSON, i.e., one person can be the personification of pure communism.

Definition. PERSONIFICATION is the representation of SOCIAL ORDER by one person or one Goddess.

The theory of personification:

Hitler is the personification of CAPITAL. Hitler is the terrible power of CAPITAL embodied in one person. Hitler (fascism) is the essence of the beast CAPITAL.

But CAPITAL is not people, and not oligarchs. The oligarchs are the great priests of the dark God CAPITAL.

Stalin is the personification of the socialist state.

Lenin is the personification of the Commune – the global community.

Hegel is the personification of the DIALECTICAL SOCIETY. But there is only one dialectical society – pure communism.

The Mother Goddess is the personification of the primitive Commune. And therefore, her image can be used for the theory of the scientific GLOBAL Commune.

Stalinists at rallies shout: "Stalin! Stalin!". The faith in Stalin is not faith in a particular man; it is faith in the pyramid of power, and in the power of the state.

The great Stalinist state is the largest pyramid of power in the history of mankind.

The state is an organized force of millions. It is power, it is strength.

Is the theory of personification correct?

Stalin embodied both the best features of the socialist state and the worst properties of the state.

Is Hitler exception or regularity according to the theory of personification?

Hitler (fascism) is the essence of the Beast CAPITAL. And democracy is just a tailcoat of the beast. But once again: the CAPITAL is neither people, nor capitalists.

The West should not brag about its democracy. It was the Russians who taught not to shoot the workers.

§ 14.6. Hegel predicted the coming of Stalin with the doctrine of LOGICAL MONARCHY

Why does Hegel write so much about the MONARCH? Hegel writes about the logical monarch, i.e., Stalin. Hegel develops his theory of PERSONIFICATION.

In the book, we have shown that Hegel predicts the coming of Stalin and the Great Stalinist state. We have written out the Hegel's epithets of the LOGICAL MONARCH and the logical monarchy and compared them with the epithets of the Stalinists. They are identical.

Most importantly, we have shown how Hegel PROVES the future coming of the great socialist state and the coming of Stalin.

The authors have shown the Hegel PROOF SYSTEM.

§ 14.7. Hegel predicted the death of the USSR, as a METAPHYSICAL, non-dialectical system

The great Hegel criticized the LOGICAL MONARCHY. He also predicted the future death of the Great Stalinist state after fulfilling its historical role.

It is very easy to show that. For Hegel, the STATE category is in the METAPHYSICS section. And as we know, metaphysics will perish and dialectics should be born instead. There is no dialectic under socialism. The socialist state is a MACHINE that makes the same monotonous movements.

It was possible to save the USSR, but only with the help of Hegel's DIALECTICS as the doctrine of a VARIABLE WORLD. But no one knows Hegel's dialectics. No one after Lenin was able to lift the logical hammer of the new Thor.

§ 14.8. Hegel's dialectics is the doctrine of the VARIABLE, i.e., the LIVING, i.e., the DIALECTICAL WORLD, i.e., the PURE COMMUNISM

The only VARIABLE (DIALECTICAL) WORLD is PURE COMMUNISM.

Hegel divided philosophy into METAPHYSICS and DIALECTICS.

The authors used the methodology of the collective of mathematicians "Nikolas Bourbaki" when working on the mathematization of Hegel's dialectics.

We modeled the categories of philosophy with the help of set theory. The set-theoretic description of categories and laws (IDEAS) made it possible to give mathematical clarity to the theorems of philosophy.

Analogies necessary for the study of Hegel's dialectics	
METAPHYSICS	DIALECTICS
DEAD world that never changes	LIVING, ever-changing world
World of CONSTANTS	World of FUNCTIONS
Metaphysical categories are dead constants.	Dialectical categories are functions of the logical time.
PERMANENT WORLD	VARIABLE WORLD
Statics	Dynamics (catastrophic!)
Dead world	Living world

Hegel's theorem. Hegel's dialectics is the science of the VARIABLE WORLD, i.e., the LIVING WORLD.

Consequence. All Hegel's dialectical categories are VARIABLE, i.e., LIVING, i.e., dialectical, i.e., constantly evolving.

Hegel's dialectical categories: FAMILY, NATIONALITY, RELIGION are VARIABLE categories. And they have nothing to do with the biological family, biological nationality, and traditional religion.

HEGEL'S METHOD OF WORK

Lenin: "Philosophical categories are the most GENERAL, the broadest categories".

Hegel gives each of his categories and each of his laws the MOST GENERAL, the most abstract definition. It is impossible to make better than Hegel. It means that Hegel has the biggest brain in the world.

There is an example of the leader of mankind's method of work.

There is a definition of the "religion" category according to Hegel's method.

Definition. RELIGION is a FAITH in the IDEAL.

Metaphysical religion is the world religion. Dialectical religion is the communist religion. The faith of scientists in science, its power, and in the power of human knowledge is also a dialectical religion.

So, the thing is that Hegel gave to all his categories the most abstract definition. And there are hundreds of categories. Do you realize the cosmic dimensions of Hegel's brain? Hegel is literally the new THOR with a huge LOGICAL HAMMER.

How did Hegel develop the theory of the VARIABLE, i.e., the LIVING WORLD, i.e., the DIALECTICAL, i.e., the COMMUNISM?

He took the permanent, dead, METAPHYSICAL category of capitalism and declared it LIVING. He made it LIVING, VARIABLE, i.e., DIALECTICAL. Hegel REVIVED THE DEAD WORLD, he revived the dead.

The DEAD WORLD of CAPITALISM

There are the dead, i.e., metaphysical, i.e., permanent categories of capitalism: permanent classes, permanent rigid division of LABOUR, permanent family (political economic, not biological), permanent nationality (political economic, not biological), permanent communities (dead tribes), permanent leaders (dead chiefs), permanent management, permanent and dead private property.

THE LIVING, i.e., DIALECTICAL, i.e., VARIABLE world of COMMUNISM.

Under communism there will be VARIABLE, i.e., LIVING DIALECTICAL CLASSES. One day you work as a worker, and the next day as a scientist.

Under communism there will also be STALIN (but ALLEGEDLY Stalin by the law of the negation of the negation). Makarenko: "THE DUTY OFFICER OF THE COMMUNE WAS A DICTATOR", but temporary.

Under communism there will also be dialectical, variable, living PRIVATE PROPERTY.

Example. I come up with a new telescope, and convince my comrades of the beauty of my idea. We make a telescope together. It means that my comrades work for me, so, I am a temporary, dialectical capitalist for them. And they are my private dialectical property.

I will not receive financial benefit, but I will take a high place in society. It means that under communism there will be a dialectical analogue of the concept of CAPITALIST.

But if someone comes up with a telescope better than mine, then he can overthrow me. So, communism is an eternal non-class revolution. Thus, there will also be an analogue of the class struggle under communism.

But if someone saves at least one PENNY, then people will fight with each other and break the bones of their brothers.

Under capitalism and socialism, the factory personnel are your permanent, dead tribe, and you are a political economic dead person. Under communism there will be real LIVING TRIBES. People will work two days at the factory, one day at the theater, and two days at university with a variable division of LABOUR. We will have many LIVING TRIBES. These tribes will be VARIABLE and LIVING.

Hegel's method is described in detail in the authors' book. Hegel did more than just declare categories to be variables. Everything is even greater. He built a powerful LOGIC MACHINE, which the

authors called the LAW OF PAIR. Hegel described the process of turning a dead category into a living category with the help of the laws of dialectics using the example of an ABSTRACT PAIR: THING-RELATION.

He used THE LAW OF THE NEGATION OF THE NEGATION, the evolutionary law of dialectics, and so on. And then he just substituted real categories for his LOGICAL MACHINE. We would need a whole book for the description of one pair! This incredibly beautiful theory is called Hegel's dialectics.

What is the main word in Hegel's dialectics?

The most important category of the three categories (variable, living, and dialectical) is the "LIVING". The world of capitalism (and the world of the end socialism) is indeed a DEAD WORLD OF DEAD PEOPLE (in political economy). But people do not know it. They think they are living. However, this is an illusion, this is mimicry. The dead of capitalism know how to disguise themselves as living people.

The people of capitalism have never seen living people and the living world. They do not know what it is like to be LIVING. People do not know that they are the GODS of the universe, and there are no other gods except people. People come to life during revolutions, do great things and make history. Then they die, and history stops again.

Now we are STANDING STILL. The political economic TIME has STOPPED on the planet. Everyone is terrified. People are going crazy because of it. They shout: "We are standing, we are standing still. Time has stopped!"

PEOPLE WILL COME TO LIFE AND WILL NEVER DIE AGAIN in the last revolution of mankind. And the time of mankind will move forward again. Communism is a system where people are like gods, and gods are people.

Hegel's brilliant idea is "to destroy the PERMANENT DIVISION OF LABOUR".

People are still looking for the root of all evil of mankind, but they cannot find it. Although the Great Hegel pointed it out many years ago.

Theorem. The root of all evil of mankind is the rigid, dead, permanent, metaphysical DIVISION OF LABOUR. Proof:

1. The rigid permanent division of LABOUR generates EXCHANGE.
2. EXCHANGE generates MONEY, MARKET, and STATE.

Theorem. The permanent rigid DIVISION OF LABOUR is the first PRIVATE PROPERTY on the planet. It will be destroyed last according to the law of TIME REVERSAL. Hegel predicted that the society with a dialectical, i.e., variable division of LABOUR would come.

The historical role of the socialist state

There were scientists, cleaners, plumbers under socialism. In order to pay wages, people need to COMPARE the LABOUR of people with each other. This comparison is made by the market under early capitalism. And under socialism, comparison of the results of the LABOUR is made by the socialist state with the help of the bourgeois PRINCIPLE "PAYMENT according to LABOUR" (wages).

In order to compare the results of the LABOUR of different people, people need to MEASURE the LABOUR of all people. Parasites are needed: norm setters, foremen, rectors, deans, and the entire state.

The LABOUR is getting more difficult. The number of norm setters is constantly growing. And it is the moment when the PARASITIC LABOUR of measuring LABOUR has equaled REAL LABOUR.

There is only one solution. We need to destroy the parasitic LABOUR of measuring LABOUR. It means that we need to stop measuring LABOUR. And then we will be rich, as all parasites, norm setters and foremen will go to real work.

What is wrong with the bourgeois PRINCIPLE “PAYMENT according to LABOUR” (wages)?

This principle generates the RIGID DIVISION OF LABOUR. And the permanent division of LABOUR is the main SETBACK of humanity. As soon as we fulfill the will of Lenin and destroy wages, the VARIABLE Hegel’s DIVISION OF LABOUR will be immediately born.

It is impossible to have a variable division of LABOUR under socialism, as the socialist state is a MACHINE for a permanent division of LABOUR.

Hegel is the LEADER of MANKIND

Lenin would not be a leader without Hegel, Marx and Engels.

Why has STUPID HUMANITY not been able to STUDY HEGEL’S THEORY for 200 years?

It is not about the difficulty of the theory. The thing is that capitalism is a dead world with dead people in political economy. But people do not know this. They think they are living. The dead get used to the dead world. And the dead world seems to them a good real world.

The dead are unable to understand the living world of Hegel’s dialectics and the living world of communism. A dead man is okay being a dead man.

MOREOVER, the DEAD are HOSTILE to the LIVING WORLD of DIALECTICS and COMMUNISM.

They consider the living world of dialectics and communism to be an abnormal and hostile world. And the dead will fight against the LIVING WORLD of the dialectic of communism. The dead will fight to die, to make our dying planet disappear, as the state of dying is a blissful narcotic state. AND THE DEAD THINK they are living and they are fighting to keep the planet living!

HEGEL: “THE DEAD SEIZES THE LIVING”.

CONCLUSION. “ONLY YOUTH CAN UNDERSTAND” Hegel’s dialectics and the theory of the living world of communism (as Lenin said). The brains of young people are not in the form of the Egyptian pyramid of power yet. They can still be revived if they drink the living water of Hegel’s dialectics.

The communist revolution is a BATTLE between the LIVING and the DEAD (in political economy).

The living fight to revive the dead. The slogan of communism is: “If YOU are ALIVE, REVIVE YOUR COMRADE”. It is difficult for the FIRST to come to life. The first living man will revive the others. Live the DEAD! Come to life! Russian legends about living water are true.

§ 14.9. It is IMPOSSIBLE to study Hegel's dialectics WITHOUT TRIAD INDICES of the authors

What did the authors do to facilitate the study of Hegel's works? The authors introduced TRIAD INDICES to all categories of Hegel. There is triad indices work on the example of the "RELIGION" category.

Triad indices of Hegel		
E – embryonic	M – metaphysical	D – dialectical
RELIGION _E	Embryonic dialectical religion. This is a primitive paganism.	
RELIGION _M	Metaphysical, permanent, rigid class religions e.g. Buddhism, Christianity.	
RELIGION _D	The dialectical religion of communism is faith in science and people. This is SCIENTIFIC PAGANISM with the deification of nature! This religion is VARIABLE. For example, we believed in an unproven physical theory, and then it was refuted and a new theory was built. So we have to change our faith. There is dialectical faith. It relies on proof and MIND. There are TRANSITIONS: FAITH1 - MIND1 - FAITH2 - MIND2 - ...	
THE LAW OF THE NEGATION OF THE NEGATION		
Theorem. The communist scientific-pagan dialectical religion “ALLEGEDLY” REPEATS the primitive pagan ideology.		
The “ALLEGEDLY” category was created by Lenin for a brief, concise exposition of the Hegel’s law of the negation of the negation. Lenin was engaged in COMPRESSION of the theorems of philosophy.		
COMPRESSION of the theorems of philosophy is called the process of FUNDAMENTALIZATION.		
That is how Lenin died. During the autopsy, the doctor hit Lenin’s brain with a scalpel, the scalpel rang, and part of the brain turned into a stone.		
Today the destruction of philosophy as a purely humanitarian science is the main task. Hegel started this work. Hegel is a LOGICIAN, but in philosophy he worked as a mathematician. COMPRESSION by the philosophy theorem is the move away from the humanitarian presentation. Lenin continued this work.		

Hegel's DIALECTICAL WORLD does not exist yet, because only PURE COMMUNISM can be a dialectical, i.e., VARIABLE world.

Consequence. There are no DIALECTICAL categories of Hegel yet. They are NOT BORN!

There are no Hegel's dialectical categories: dialectical freedom, dialectical necessity, dialectical religion, dialectical DIVISION OF LABOUR, dialectical classes, dialectical CONTROL THEORY, dialectical political economic nationality, dialectical LEADERS, dialectical new tribes, dialectical PRIVATE PROPERTY, dialectical (variable) MATRIARCHY! They are NOT BORN!

According to Hegel, we are still in the METAPHYSICAL WORLD, where EVERYTHING is PERMANENT.

Our categories are: metaphysical freedom, metaphysical religion, metaphysical (permanent) DIVISION of LABOUR, metaphysical (permanent) classes, metaphysical CONTROL THEORY, metaphysical political economic nationality, metaphysical LEADERS, metaphysical (permanent) PRIVATE PROPERTY, metaphysical (permanent) PATRIARCHY. All these categories are dead. We are dead, but we think we are alive. We are in the matrix of CAPITAL. We do not live. We do not know what a free life is.

Consequence

HEGEL'S DIALECTICS is the book of the FUTURE! The book of the future has already been written by the Great Hegel!

There is no DIALECTICS of PEOPLE under capitalism and socialism.

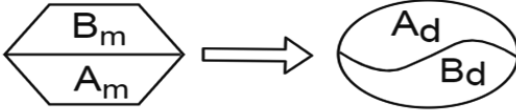
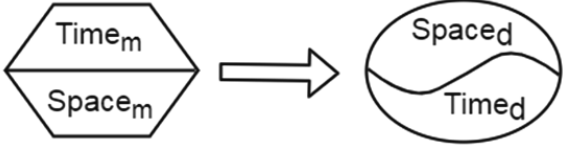
Question. Under capitalism, the market changes and new electronics are created every day. It turns out that there is the dialectics. But this is the DIALECTICS of MONEY and the METAPHYSICS of PEOPLE. Under capitalism and socialism, a human is an ETERNAL SLAVE or an eternal subordinate. So, there is no dialectics of people under capitalism and socialism.

CONSEQUENCE. Hegel's dialectics is the theory of PURE COMMUNISM.

So the dialectical revolution and the communist (not socialist) revolution are synonymous.

All Hegel's books with collection of hundreds of Hegel's dialectical categories are the BIBLE of the new FUTURE WORLD. Hegel has nothing to do with the past. He is a PROPHET of the FUTURE.

§ 14.10. Hegel's law of correspondence. The Bohr's correspondence principle is a consequence of Hegel's law

Hegel's law of correspondence:	
	
From Metaphysics to Dialectics!	
From the dead world to the living world!	
From PERMANENT world to VARIABLE world!	
The first description of the law of correspondence	
a) Dialectics is the negation of metaphysics; b) Dialectics is an uninterrupted continuation of metaphysics.	
Newtonian mechanics and Poincare and Einstein's Theory of Relativity	
	
Metaphysics	Dialectics
Newtonian mechanics	Poincare and Einstein's Theory of Relativity
The law of the metaphysical pair.	The law of the dialectical pair. Theory of transitions.
Space _m and Time _m are dead categories	Space _d and Time _d are living categories
in comparison with the categories of the theory of relativity.	in comparison with the categories of Newtonian mechanics.
Space _m is space _m	Time _d is space _d
	Physicists should properly describe this definition. Time _d is the totality of all directed changes in space _d .
Space _m is not time _m .	Transition: space _d → time _d

Time _m is time _m .	Space _d is time _d
	Physicists should properly describe this definition.
Time _m is not space _m	Transition: time _d → space _d

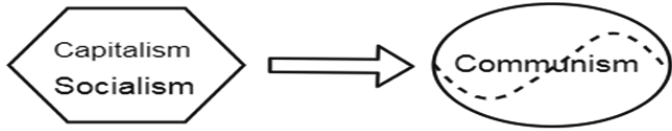
The outstanding French scientist Henri Poincare played a decisive role in the creation of the theory of relativity. In general relativity, Hilbert (not Einstein) created the cosmological equation. Given the great contribution of Einstein, it is fair to call this equation the Hilbert-Einstein equation.

Are the categories of the theory of relativity dialectical?

Hegel's principle of relativity. The categories are dialectical only in relation to Newtonian mechanics. And their role is unknown in relation to other sciences.

Consequence. Bohr's correspondence principle, Dirac equation and all other laws of correspondence in all sciences that have already been discovered or will be discovered are consequences of Hegel's law of correspondence.

Physicists boast that they have discovered two or three laws of correspondence. But they do not know that Hegel discovered all of them.

	
Metaphysics	Dialectics
Capitalism and socialism are metaphysical, dead worlds.	Communism is a dialectical, living world.
Permanent, dead categories. Constants.	Living, ever-changing categories. Functions. Variable categories.
Permanent division of LABOUR	Variable division of LABOUR.
Permanent classes	“ALLEGEDLY” variable classes. “ALLEGEDLY” category from Lenin.
Permanent control	Variable control.
Permanent private property	“ALLEGEDLY” variable private property
There are no tribes	Variable tribes. “ALLEGEDLY” throwback to the tribes. The tribes will be dialectical, i.e., temporary.
Permanent nationality	Variable political economic nationality. Definition. The political economic nationality is a nationality by education.
Permanent family	Variable political economic family. The spirit of the brotherhood.
Permanent patriarchy	Variable, dialectical matriarchy.
Permanent sectors. Permanent dominance of the sector in the economy	Variable, dialectical pair: sector-territory with transitions sector ↔ territory.

Hegel-Marx theorem. METAPHYSICS will die out in the course of the dialectical revolution, besides, the metaphysical family, the metaphysical division of LABOUR, metaphysical control, metaphysical classes will also die out. The world of the dead will disappear.

Important. Dying out means dying out in political economy, not biology!

Thus, DIALECTICS will be born. The dead will come to life. The dialectical nationality, dialectical family, dialectical, living classes, and dialectical control will be born.

The Global Commune is not a machine, but a LIVING BEING, like the biosphere of people. Every day something old will die and something new will be born in the Commune.

How to prove that Hegel is really new Thor?

On the example of the law of correspondence, it is clear that Hegel's dialectics can destroy the problems of physics, and it also can help to build communism, as the whole theory of communism is only a small consequence of Hegel's dialectics.

So it turns out that Hegel's DIALECTICS is the UNIVERSAL HAMMER of mankind.

The all-destroying hammer exists. Germanic myths are true. And this hammer is heavy, and there is no hero who could lift the logical hammer of THOR-HEGEL.

Lenin was the last hero who waved the logical hammer of the new Thor.

§ 14.11. Hegel formed the theory of pure communism with the help of his famous TRIADS

Hegel's triad: Commune – State – Communism (global commune).

The implication is that communism is the negation of the state and the Commune is a global community. Developing this idea, we will come to the theory of communism. And the commune is dialectical, VARIABLE COMMUNE.

Hegel's triad Matriarchy – State – Dialectical Matriarchy means that under communism there will be a dialectical matriarchy. Read "What is it?" in Book II.

Hegel's triad Youth – Old people – Youth means that youth will rule under communism.

The logical evolution of Hegel.		
Hegel's evolutionary triads.		
Embryonic dialectics	Metaphysics	Dialectics
	Triad indices	
<i>E</i>	<i>M</i>	<i>D</i>
Hegel's triad: Tribe _E → State _M → Commune _D		
Community _E → State _M → Global community _D		
Primitive commune _E → State _M → Scientific global Commune _D		
Leader _E → Chief _M → Leader _D		
Matriarchy _E → Patriarchy _M → Matriarchy _D		
Territory _E → Sector _D → Territory _D		
Youth _E → Old people _M → Youth _D		
No division of LABOUR _E → Rigid division of LABOUR _M → Variable division of LABOUR _D		

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The communist (not socialist) revolution is the world-historic defeat of the old people.

The theory of communism.

Hegel's triad Territory – Sector – Dialectical territory means that under communism there will be a principally territorial control system, but with transitions:

TERRITORY1– SECTOR 1 – TERRITORY 2 – SECTOR 2,...

We have supplemented the list of Hegel's TRIADS with our own triads. Read it in Book II.

§ 14.12. The PROGRAM of HEGEL'S IDEALISM. The communist revolution is a dialectical revolution. Communist (not socialist) revolution Is the UPRISING of the IDEA!

HEGEL'S IDEALISM

Hegel's axiom. The communist REVOLUTION is the UPRISING of the IDEA!

The rise of a NEW IDEA over the rotting living planet of human and animals.

The uprising of the IDEAS of BROOTHERING.

The uprising of BELIEVED LOVE and DEFILED BEAUTY.

The uprising of MIND, not POWER.

The uprising of the BRAIN, not ARMS.

The uprising of KNOWLEDGE.

The dialectical (communist) revolution is the IDEAL REVOLUTION! The uprising, as the second socialist revolution will lead the planet to death.

Therefore, the communist revolution must be as the Hegelian revolution, as the IDEAL REVOLUTION, as the uprising of a NEW IDEA.

It is not October 1917. There are millions of the smartest scientific youth on the planet.

Theory of inversion		
What rotates under		
capitalism?	socialism?	communism?
Money (capital)	Commands	IDEAS
Living money seizes dead people and leads them to build capitalism.	Living commands seize dead people and lead them to build capitalism. But under socialism, the IDEA of communism is also living. Only Lenin led to communism.	A LIVING IDEA gets into dead person, revives him and leads him to build communism. The commune is not a machine. Communism is a rotating galaxy of ideas and people. Rotate, rotate, rotate! Lenin. Chiefs need to be constantly replaced by workers and other employees. Lenin began to rotate Russia with a mighty hand. And at a certain speed, the Commune of Russia will begin to rotate without any help and go to the space.
Hegel's idealism is beautiful		

Theory of communism inversion

IDEAS AND PEOPLE will rotate under communism.

§ 14.13. Examples of Lenin's use of Hegel's IDEALISM

Lenin: "The IDEA of POWER will be replaced by the POWER of IDEAS".

Lenin says that communism is an ideal system and that an IDEA (not people) will rule under communism.

Lenin: "Communism is based on economics, but it is not reduced to it".

And again Lenin means that communism is an ideal system.

Lenin: "Communism is a world in which there WILL be no PAST".

Lenin says that communism is the DIVINE WORLD. There are no analogues on the planet.

Lenin's formula of communism. LENIN: "I am the SAME as EVERYONE".

Lenin: "We must EMBODY the IDEA in OURSELVES".

Lenin: "We took away SOLDIERS from the ENTENTE".

Lenin teaches us not to kill, but to take away with the help of an IDEA that embodied in OURSELVES.

Hegel's idealism. It is necessary to kill the DARK IDEA of elitism.

According to Lenin, "Dark ideas of elitism must be killed in OURSELVES, in our hearts".

Question. Why did socialism die? Hegel's idealism can answer.

When the IDEA of socialism was young and strong, it gave birth to great parties and great socialist leaders. It gave birth to the Great USSR. But time passed and THE IDEA OF SOCIALISM fulfilled its historic duty. It passed its valiant noble path.

The idea of socialism became old and died in the souls of people. Also socialism died.

Hegel's idealism: the idea of socialism is primary. The idea is more important than socialism itself. So, if the IDEA OF SOCIALISM dies in the souls of people, then socialism is doomed to die too.

Soon a new idea will rise over the planet; it is the idea of a global commune. Will communism be built? Hegel replies: "Communism will certainly be built". The IDEA will do everything: it will raise millions of new great Hegels, Marxes, Lenins, and there will be no civil war. Old CAPITAL will have political economic heart attack.

The global Commune will demolish all socialist states and socialist chiefs.

Communism will send the capitalist and socialist states to the museum. Great Engels: "And put it next to a bronze ax". The socialist state will take a place of honor in the museum.

ABOUT HEGEL

We all have studied at the best universities in the world. We have spoken at conferences attended by hundreds of scientists from all over the world. And Hegel was born when the witch trials were still going on in Germany.

It is impossible to understand how a person born in the prehistoric era rises above us today. There is only one thing to say: GERMAN NATIONAL CHARACTER:

GERMANS are GERMANS. They are the GREAT GERMANIC PEOPLES.

The Germans, like the Russians, retained their primitive honesty and courage. They are as naive as the Russians. They are also easily deceived. But it is not forever.

§ 14.14. Hegel's idealism says that "We must kill the DARK IDEA of ELITARISM" and this idea must be killed in OURSELVES!

The whole power of capitalism rests on the dark idea of elitism. According to Hegel, it is impossible to build a happy world without killing the dark idea of elitism. Otherwise any revolution is doomed to die.

The dark idea of elitism is terrible and strong. It generates new dark fighters every moment. And it is even more terrible when it turns revolutionaries into traitors to the revolution.

The dark idea of elitism needs to be killed; ONLY THE IDEA needs to be killed. How many people does it take to kill the dark idea of elitism? It is all about the first one. Who will go the first?

Example. A German professor becomes a communard and cleans the toilets of his faculty in the evenings. This news will spread on the Internet and all over the planet. And it is quite possible that the only one person will be enough. And the dark IDEA of elitism will shrink and disappear.

Hegel says that if the DARK IDEA of elitism is killed, then CAPITAL will die too.

The idea of elitism is the thirst for wealth, the idea of exclusivity, gluttony, and the thirst for power.

How can you kill the state? You need to kill the idea of the state in your heart. You can give your power to the team and solve all issues collectively, without commands. And thus the idea of the state will be killed in your heart.

§ 14.15. The necessity of creating a new science – MODEL THEORY for MATHEMATIZED Hegel's dialectics

It is easy to model one pair. There is a BODY-SHAPE pair. The ball is a body. The shape of the ball is a sphere. It is necessary to determine which of these categories is primary and material in relation to the second and which of these two categories is secondary and ideal in relation to the first category.

There is property of these two categories dual to each other.

1. Both categories are equal to each other. They are commensurate. Neither of them is worse or better. They are just different.
2. Both categories are opposite to each other. They are qualitatively different categories. Obviously, the surface and the body are completely different categories. So, mathematical formulas for surfaces and bodies are different.
3. Transitions: BODY-SHAPE and SHAPE-BODY can also be demonstrated.

Here is another PHENOMENON-ESSENCE pair. If we multiply both pairs, then we notice that the product changes from a permutation of the factors. We get complex double pairs. They need to be MODELED. But how? We couldn't even model two pairs. But young mathematicians will be able to do it.

§ 14.16. Hegel's dialectics is the THEORY of the GREAT UNIFICATION of mankind

The capitalist unification of Europe was supposed to be a progressive phenomenon, but there was no real happy unification. The reason is that metaphysical systems cannot be happily combined.

And dialectical countries-communes will definitely unite into a dialectical global Commune. There will be contradictions between countries and peoples, but the contradictions will be dialectical, so they will be resolved with the help of collective mind.

§ 14.17. The development of the theory of communism with the help of Hegel's IDEALISM

The authors are fanatical Hegelians. We know that the leader has created the theory of the evolution of categories and ideas. The fact that he discovered logical evolution and established its laws means that he DISCOVERED EVERYTHING!

We understand that among Marx, Engels, Chernyshevsky, Hegel and Lenin only Hegel is right. Hegel is the God of Logic and he is the new Thor. We know that our leader is great. He is the God in this universe. We should hold on to our greatest leader with all our might, and he will bring us freedom and peace. He will.

We decided to develop the theory of communism only with the help of Hegel's IDEALISM.

How? There is only one answer: IDEALLY.

Here are some examples from our work.

Question 1. What should be the new communard (not socialist) party?

Answer. It should be ideal. People should be united in it only with the help of an IDEA embodied in them. This party may include a billion people, as it is without a fixed membership.

Question 2. What should be the revolution? It should be ideal. Only the ideal revolution can be peaceful.

Question 3. What should be killed in this revolution? The DARK IDEA need to be killed in our hearts.

Hegelian evolution of the "EQUALITY" category

Capitalism. The equality in the market. The money equality. People are equal as two dollars are equal to each other.

Socialism. Equality before the state.

Question 4. What should be equality under communism?

The answer according to Hegel: IDEAL EQUALITY is EQUALITY BEFORE THE IDEA!

Question to the reader. And what is EQUALITY before AN IDEA?

The answer is very beautiful, but we need to know what Hegel's IDEA category means.

That is how we managed to understand the theory of communism. The theory of communism in the form of Hegel's IDEALISM is a very beautiful theory.

§ 14.18. Hegel deceived the Prussian and socialist elites!

Hegel's theorem. The highest form of the state is monarchy. Here is a clarification.

Hegel's theorem. The highest form of the state is a logical monarchy. The logical monarchy is a huge ROBOT STATE. All 100% of people are its parts.

However, the highest one is not the best. The state is in the METAPHYSICS section, and metaphysics will be destroyed by DIALECTICS.

Hegel did not go to church. Why? Because Hegel is the God of LOGIC.

Did Hegel know that he was preparing a great dialectical revolution? Did God know that he was God? He did. All his actions speak about it.

He celebrated the French Revolution day.

Hegel disapproved of the terror of the French Revolution. So wasn't he a revolutionary?

We will answer for Hegel. Hegel said: "Put your guns down. Stand up with my dialectics and my logical hammer! And there will be no civil war".

Hegel's idealism theorem. Axiom of Communism.

The ideal revolution is much more important than the real one.

The THEORETICAL REVOLUTION is immeasurably MORE IMPORTANT THAN the practical revolution.

The revolution of brains is immeasurably more important than the revolution of arms.

Revolution is impossible without revolution in the minds.

Why? The theoretical revolution will win, and then millions new Hegels, Marxes, Engels, Lenins will be born. Capitalism almost died because of only one Marx.

Lenin spoke of the general arming of the people.

Lenin spoke of a socialist revolution in an illiterate peasant country.

However, it is not October 1917. There are millions of the smartest young people on the planet with a university education.

The socialist revolution will lead the planet to death. The revolution must be IDEAL, as Hegel ordered.

Not a universal armament of hands, but a universal armament of brains!

Not to rifles, but to theoretical weapons, to the IDEA!

Hegel is a materialist. He deceived Marx, Engels and Lenin.

1. The evolution of Hegel's categories begins with the materialistic category! The great Logician could not make a mistake.
2. If the material conditions are all set, then it is not necessary to write about them.
3. Hegel's IDEA is not the idea that journalists write about.

Lenin set the task of a materialistic description of Hegel's dialectics.

The authors made a different decision. They described Hegel's theory from a position of even greater idealism. Two extremes converged.

The Mother Goddess was born when primitive communes appeared.

After her birth, a great victory came to the primitive communes. The children stopped dying. Productivity of labour increased. It was much funnier to live in a commune. The number of communes grew. And who gave birth? The Mother Goddess did.

Faith in the Great Mother Goddess is faith in the power of the primitive Commune.

Therefore, the Great Mother Goddess is the personification of the primitive Commune. And we decided to use her image to develop a theory of the Global Commune.

Example. In Slavic mythology, there is a goddess named MATI SYRA ZEMLYA (Earth Mother). There was a custom after giving birth to take the child to the field, put it on the ground and say: "Mother Goddess, it is your child. Look how beautiful he is".

Women believed that the Goddess gave birth to the child, through their body, or they gave birth together. Thus, the child had two mothers: one is the Great Mother Goddess, and the other is his mother Tanya. And Tanya was also the daughter of the Great Goddess.

Karl Marx. Political economic nationalization of children. Why? Because all children are the children of the Great Goddess, in other words, the nation.

And communism is the return of children to their mother – the Mother Goddess.

Communism will win, and the children will return to the first and Great Mother. And then the Mother Goddess will tell her daughter Tanya: "Have a rest, daughter. I'll take care of our baby". The commune will support its children as the Great Mother. Under communism, mother Tanya will have a rest. The whole theory of communism of the authors is presented as a RETURN to the MOTHER, the Great Mother Goddess.

And the Great Mother Goddess will definitely return with the SECOND COMING. She will.

Lenin's criticism

Note that Lenin criticizes Hegel only at the beginning of his Philosophical Notebooks, and then he praises him.

Why does not Hegel have anything about the commune?

Hegel does! Hegel's dialectics is the doctrine of the global Commune. And we should take into account that Hegel is a logician and political economy is an applied science compared to logic.

Example. Hegel's theorem: "Real science is always idealism". Hegel says that logic is the highest science and the categories of Logic are abstract (ideal). And that is true. After all, mathematics is also an ideal science.

Perhaps, Hegel has written about the Commune. Hegel's works must be read with a magnifying glass, and every word must be checked for weeks. This job is not for mortals. Hegel and Lenin wrote concisely and briefly. Every word of the leaders can be a great discovery as the equivalence $E=MC^2$.

Example. In Lenin's book *The State and Revolutions*, you can see the word SEMI-STATE only once. Although this word means a new type of socialist state. This is the second transition form of socialism and detailed description of this word can take a dozen new books. Lenin's form of socialism was never built. And that is why socialism died.

The THEORETICAL REVOLUTION is much more IMPORTANT than the practical revolution.

Chapter XV. The contents of the author's book III: "The POLITICAL ECONOMIC WORLD of Marx-Engels"

§ 15.1. Marx's theorem on the withering away of the nationality is TRUE, but as about POLITICAL ECONOMIC nationality! Marx is not a biologist.

The authors included only one "POLITICAL ECONOMIC" category into Marx's political economy and Marx's theory became simple and clear.

Definition. Political economic nationality is a nationality by education.

Marx's theorem on the withering away of metaphysical nationality and the birth of dialectical, i.e., variable political economic nationality.

Nowadays young people speak several languages. That means the variable political economic nationality has already been born. It was predicted by Hegel and Marx.

The birth of a dialectical nationality is the first sign of pure communism. That means communism is coming. Marx has nothing to do with biological nationality. Marx is not a biologist.

§ 15.2. Marx's theorem on the withering away of the family is TRUE, but as about POLITICAL ECONOMIC family! Marx is not a biologist.

Definition. A political economic family is a family in spirit. For example, a coach and his students are a political economic family. And biological, but dysfunctional family is not a political economic family.

Marx's theorem on the withering away of the metaphysical family and the birth of a dialectical, i.e., variable political economic family. The law of conformity.

Universities, factories, schools will become Communes under communism. They will become new TRIBES. These tribes will be variable, i.e., dialectical. So your institute will be your first family, the tribe of sportsmen will be your second political economic family. Such families will be variable. Marx has nothing to do with the biological family. Marx is not a biologist.

§ 15.3. Marx's theorem on the NATIONALIZATION of CHILDREN is TRUE, but as about POLITICAL ECONOMIC nationalization! Marx is not a biologist.

Marx's theorem on the POLITICAL ECONOMIC NATIONALIZATION of CHILDREN, not biological. Marx is not a biologist. No one will take children away from their parents. Under communism, all children will be on the 100% economic support of the Commune. So, the children will be economically supported not by parents, but by the entire Commune.

Example. Sports uniforms will not be sold in stores. It will be sent to the sports sections. The coach will give the children the uniform. He will also order the necessary sizes. The coach will be the political economic father of his students.

§ 15.4. Marx's theorem on the NATIONALIZATION of WOMEN is TRUE, but as about POLITICAL ECONOMIC nationalization! Marx is not a biologist.

Under communism, all 100% of people will receive both WORKING and SCIENTIFIC education.

Hegel said that we need to destroy the PERMANENT, METAPHYSICAL, rigid division of LABOUR, and replace it with DIALECTICAL, i.e., VARIABLE division of LABOUR.

All 100% of people will work two or three days a week as WORKERS, and the other two or three days they will be engaged in science and art.

And then The Global Commune, socially uniform system will be born. So communism is a system of WORKERS-SCIENTISTS or SCIENTISTS-WORKERS.

Under capitalism, beautiful women are the private property of the rich people. Under socialism, beautiful women are the private property of the socialist elite. Under communism, women and men will be common property of all men and women. How?

Marx's theorem on the political economic nationalization of women under communism means the following: "Theoretically, any beautiful woman can be yours. There are no social barriers, but you need to prove yourself and surprise the beautiful woman".

§ 15.5. Marx: "EQUALITY is the DESTRUCTION of CLASSES".

Marx said: "Destroy the classes of WORKERS and INTELLECTUALS by merging into the Global Commune"

Definition of class. The class is a part of society; the class is not the entire society.

MARX. Destroy the classes of WORKERS and INTELLECTUALS by merging into the GLOBAL COMMUNE.

The Global Commune is a socially uniform system.

Marx, Engels, Lenin. Under communism, all 100% of people should become WORKERS!

Marx's theorem. All 100% of people will become WORKERS with the emancipation of LABOUR! And productive LABOUR will cease to belong to a certain class. Marx. The Civil War in France.

The workers will become a WHOLE society. And the WHOLE is not the class; the CLASS is a PART of society. And they are also scientists. All 100% of people will be engaged in science. Communism is a system of WORKERS AND SCIENTISTS.

A WORKER is a political economic MULE in the theory of communism. The peasants give milk, so the peasants are political economic cows. This is not a figure of speech. This is an exact mathematical theory in political economy.

Oligarchs are political economic sharks. This is also an exact theory in political economy. Miners are political economic mining donkeys. Their life is stupid and meaningless. The goal of communism: the destruction of the worker as a class (in political economy, not biology). How? It is possible by turning him into a worker-scientist with a variable division of LABOUR.

Two theories of Marx

The first "Emancipation of LABOUR" theory describes socialism.

The second "Destruction of LABOUR" theory describes pure communism.

We need to turn to Hegel to understand Marx.

Hegel's order: "Truth is a process".

Hegel means that "Truth is evolution; the truth is logical (unreal!) evolution of category". The leader orders: "Build the logical evolution for each category. Only evolution gives the truth. The logical one is the essence of the historical one".

We have always followed our dialectical leader. We've always fought alongside him. Hegel ordered to create the evolution of categories. And we carried out the leader's order.

We have created the evolution of categories by Hegel's order. We have shown how the category of capitalism passes into the category of socialism, and how the category of socialism will pass into the category of communism by negation. We have made an evolutionary scheme of three tables.

Logical evolution of the categories of political economy of		
capitalism	socialism	communism
Right to LABOUR-POWER No right to LABOUR	Right to LABOUR No right to CREATIVITY	Right to CREATIVITY
The worker's arms are his private property. And he has the right to sell them.	Marx: "Emancipation of LABOUR"	Marx: "Destruction of LABOUR"
Labour-Power	Labour	Creativity
		Under communism, the category of labour will be destroyed. It is not a category of the political economy of communism.
Consumer	Consumer - Producer	Producer

Universal higher fundamental education is necessary to realize the "RIGHT to CREATIVITY", although it is not the only one what we need. Under socialism, even the scientists of the Academy of Sciences did not have the right to creativity. They could think only with the permission of the chief. It is necessary to abolish all chiefs and the entire state in order to realize the "RIGHT TO CREATIVITY". Only then the number of new discoveries will increase.

A complete evolutionary scheme of three tables is contained in book III "THE POLITICAL ECONOMIC WORLD OF MARX-ENGELS".

§ 15.6. The law of shortening the social formations lifetime. Communism will live ZERO years!

We carried out the Hegel's order to create the evolution of the category "Time".

Lifetime of					
Primitive Commune	Slave-owning system	Feudalism	Capitalism	Socialism	Communism
20000	4000	1500-200	400	100	0!

Theorem. Communism will live for ZERO years. Communism is an eternal revolution, not a class revolution. The Communist revolution, once started, will go on forever. Everyone will have hundreds of ideas and everyone will try to embody them. The struggle of people will begin again, but it will be not a class struggle. The law of correspondence is fulfilled.

Alexander Blok, Russian poet, guessed the essence of pure communism with his brilliant intuition. Alexander Blok (translated by Yevgeny Bonver): "And endless battle! We only dream of peace".

§ 15.7. The political economy of communism is a quantum science!

Socialism	Communism
Marx: "The state is a political economic machine"	A human is the electron of communism according to Engels
The epoch of Classical Mechanics	The epoch of Quantum Mechanics
Human energy	
Money	IDEA (idealism of Hegel)
If there are a lot of money,	If there are a lot of IDEAS,
then you will rotate in elevated orbit of	
capitalism	communism
	You bring tactical ideas to the administration. You bring strategic ideas from the administration to your factory
Theory of inversion. Inversion of	
money	IDEAS and people. Hegel's idealism
To cross over to elevated orbit, there should be a lot of	
money	new ideas

The difference between the struggle of people under communism and under capitalism.

The goal of the struggle of people under	
capitalism	communism
to take	to give
The capitalist is happy	The communard is happy
when	
he eats	the children eat
Happiness is	
primal	spiritual
Physiological reactions	
Primal, animal, like Ivan Pavlov's dog had. The first-signal system	The second-signal system

The primitive world of great Germanic battles and great primitive leaders.

Leaders were obliged to fight. The cult of heroism.

According to Lenin, a subordinate is a slave. And there will be no slaves under communism. According to Lenin, communism is a system of LEADERS. And every person will be a leader under communism. Even a three-year-old the child will be brought up as a great leader under communism.

Lenin's theorem. All political categories of communism should be with a prefix SELF-:

Self-movement (Lenin), self-discipline (Lenin), self-organization (Lenin), self-management (Lenin), and so on.

Lenin completed the political economy of communism. Now all the categories of the political economy of communism are defined.

According to Lenin, every person must be a leader. Everyone has to move by himself (self-movement) and lead others. There is a logical contradiction in this sentence, but this contradiction is dialectical.

There will be an ALLEGEDLY (Lenin) return to the great Germanic epoch of great leaders under communism. Great mathematical, physical, sports, chemical, and poetic leaders will be born and will lead people into the great Cosmos.

The difference between academicians-leaders of socialism and academicians-leaders of communism.

The leaders of communism will not have a document that says that he is a leader (academician). And it means that the leader of communism will have to fight every day for the title of leader.

Millions of talented young lions will be born under communism. Young lions grow fast and they can ALLEGEDLY overthrow you. It is an eternal struggle. It is a human life and a human struggle.

But if there is at least one penny left (in the political economic sense), then animal life will begin again. People will turn into political economic beasts and begin to compete and eat each other. They will tear off each other's ears, and break the bones of weak people.

Many people misunderstand Marx.

Everyone believes that religion according to Marx is a fantasy, because of Marx's expression "Religion is a fantastic reflection..." But according to Marx, religion is reality.

Marx: "All religion, however, is nothing but the fantastic reflection in men's minds of those external forces which control their daily life."

That is REAL political force behind every great god according to Marx. The pagan god PERUN became the main one not by chance during the reign of Vladimir. At that time, a state with a permanent army was created; a professional caste of officers was born. This was the incarnation of the God Perun. And history has proven it. The Russian officers were gods. They won all the battles and saved Russia more than once. Only Gods are able to do this.

Law. Every the Great Goddess had a daughter. In Russia, the Mother Goddess had a daughter, Lada. But birth does not coincide in biology and political economy. So, when was daughter Lada born?

There is a consequence from Marx's theorem. Daughter Lada could be born only when a new political force was born. Which one? The first political force is the power of the primitive Commune.

And the second one? The second political force is the power of the caste of female priests. So, daughter Lada was born when the power of female priests appeared and strengthened. There was no way daughter Lada could be born earlier than this period.

This part is for historians. Historians can confirm or refute our statement.

Chapter XVI. The contents of the author's book IV: Lenin built the political economy of both COMMUNISM and SOCIALISM

§ 16.1. What is the difference between Lenin's works and the works of Hegel, Marx and Engels?

Hegel and Marx gave only half definitions from the WORLD of ESSENCES. For brevity, they left out of consideration definitions from the WORLD of PHENOMENON.

The task of CREATING DIALECTICS was set by Lenin. He set the task to turn LOGIC into mathematical logic. An alphabet, axioms and inference rules are need.

Lenin started making efforts to compress theorems and definitions. For that reason, Lenin provided all the definitions in PAIRS and by way of PAIRS.

It is quite simple to formalize Lenin's works. The point is to insert definitions made by him into drawings of dialectical pairs. That is exactly what we did.

Lenin: "Categories must be deduced". Lenin proves all major economic and political decisions. He derives them from Hegel's theorems.

Giving a speech to working women and weavers, Lenin always touched upon Hegel's theorems. In conversation with anyone, Lenin unexceptionally used the language of philosophy. He had no other language.

Conclusion of the authors. Philosophical logic cannot be built by analogy with mathematical logic, i.e. it is impossible to built philosophical logic deductively.

Lenin FINALIZED the political economy

both of SOCIALISM and COMMUNISM.

Lenin compiled two TABLES of CATEGORIES.

But not a single Marxist across the globe is aware of these tables!

Lenin compiled a table of socialist categories and a table of communist categories. There is nothing in common between political economy of socialism and political economy of communism. There are no common categories. As a matter of fact, they have different times.

The political economy of socialism is the science of LABOUR TIME.

The political economy is the science dealing with FREE TIME.

The political economy of communism is the science of the time for FREE CREATIVITY that does not include production of engines, machines and refrigerators, as well as the LABOUR category. The last will be replaced by the CREATIVITY category.

Lenin drew up all practical measures for the real building of real communism. It is understood, what to do and how. Lenin's complete theory and practice on the building of real communism are presented in the BOOK IV:

"Lenin built the political economy of both COMMUNISM and SOCIALISM".

Lenin is the greatest political philosopher. His father is Ilya Nikolaevich Ulyanov, who had the degree of Candidate of Physical and Mathematical Sciences. He was a student of Nikolai Ivanovich Lobachevsky, the geometer, who created non-Euclidean geometry.

In all fifty-five books written by him, Lenin uses all the laws of Hegel's dialectics and the whole philosophy reference book. He uses the principle of determinism, the theory of reflection, the prin-

ciple of universal connection, the law of the negation of the negation, the theory of transitions (wave↔particle), the law of time reversal (new Sparta), the law of the unity of the world, the Hegelian triad, etc.

Triad indices must be substituted in all Lenin's books, and the laws of dialectics must be described in detail. Lenin's works are written laconically because Lenin was a leader engaging in war.

Example. Lenin proves the theory of the duality of socialism by using the PRINCIPLE OF DEVELOPMENT (the continuity principle). However, the principle of development is not just the principle of continuity but a whole science that does not exist yet!

Mathematics is divided into the Science of Logic and the science of Mathematical Analysis. Logic studies the discrete world, and Mathematical Analysis studies the continuous world. However, the World is one and only, according to the law of the UNITY of the WORLD. Therefore, the discrete world and the continuous world are sides of the same World.

Philosophy is also divided into the Science of Logic and the science of DEVELOPMENT. Hence, the science of DEVELOPMENT is a mathematical analysis of philosophy, and we need to draw graphs of the theorems of philosophy in the science of DEVELOPMENT. But no one did it. So, there is no science of development yet.

The authors created the science of DEVELOPMENT in the book “Mathematized Hegel's dialectics”

The authors' drawings are as follows:


1. All drawings accurately reflect Hegel's laws.
2. All drawings have acute angles that mean catastrophe. They have great resemblance to the drawings of the creators of Catastrophe Theory, mathematicians Vladimir Arnold and Rene Thom. Why? **According to Lenin's theory “Dialectics is the science of catastrophe”.**

To be more precise, the authors laid the foundation for the science of DEVELOPMENT.

Mathematics gave birth to the great Lenin. It was an influence of Nikolai Ivanovich Lobachevsky, the creator of non-Euclidean geometry.

Lenin: “We see a striking manifestation of the dialectical LAW OF THE UNITY OF THE WORLD in differential equations”. Lenin is right. Lenin is always right.

Lenin and Hegel created the whole set of categories of the political economy of communism.

	Categories of political economy of communism		
Hegel	are dialectical, i.e., variable		
Lenin	start with -SELF		
			
Hegel's theorem		Lenin's theorem	Under communism, the following will disappear
The categories of communism are dialectical.		The categories of communism start with -SELF	
Variable division of labour		SELF-MOVEMENT (Lenin)	Movement
Variable classes		SELF-ORGANIZATION	Organization of people by organ-

	(Lenin)	izers: State and Capital
Variable control	SELF-DISCIPLINE (Lenin)	Discipline
Variable private property	SELF-MANAGEMENT (Lenin)	Management
Variable tribes	SELF-PROPAGANDA (Lenin)	Propaganda
Variable political economic nationality	SELF-PEDAGOGY	Pedagogy
Variable political economic family	SELF-MOVING (Lenin)	Constitution will be replaced with IDEA
Variable, dialectical matriarchy		RIGHTS and LAWS
Variable, dialectical pair: sector – territory with transitions sector ↔ territory		Gender equality will be replaced by EQUALTY. Marx's theorem. In practice, gender equality is a flagrant INEQUALITY. That is why it must be destroyed.

The state, money, law, constitution, propaganda and discipline will disappear under communism, i.e. propaganda of the revolution will be prohibited. There must be SELF-PROPAGANDA of the revolution. Lenin: “We must EMBODY the IDEA in OURSELVES”, not in your language.

Theory of communism. A subordinate is a slave. There will be no slaves under communism. Communism consists of LEADERS. Everyone is a leader, even a three-year-old child is brought up as a great leader.

Lenin created a party of leaders. He created a SELF-MOVING PARTY that is capable of moving without a leader, i.e. a general secretary.

Lenin restricted newspaper editors to sing the praises of him. Seeing the leaders' portraits on the wall, he said contemptuously the following: “New icons have been hung once again”.

Lenin: “Leader... (contemptuously). The people are LEADER!” Lenin completed a formidable challenge – he created the LEADER who was the PEOPLE.

Lenin conducted party discussions. What for? After all, it was just a loss of time for him. The truth of the matter is that Lenin wanted the workers to stop being executive monkeys and mindlessly follow orders. Lenin created the COLLECTIVE CONSCIOUSNESS of the party that would give rise to hundreds of thousands of new great leaders from the working class.

Lenin brought up leaders. And he was absolutely right. Executive monkeys could not bear reforming the economic and political system called perestroika.

§ 16.2. Lenin discovered the SECOND TRANSITIONAL FORM between capitalism and pure communism

Lenin's new KNOWN to nobody THEORY about the SEMI-STATE

In his works, Lenin indicated the cause of death of socialism and the dissolution of the USSR. Did socialism exist in the USSR?

Yes, it did. But there was pure socialism with absolute MONOCRACY. Pure socialism is a semi-fair system with semi-equality. Lenin's new theory made it clear that there could not be a seamless transition from pure socialism to communism.

Lenin's logic is as follows. An anthropoid ape could not morph into a human overnight. There were many TRANSITIONAL FORMS, such as Sinanthropus, handy man (homo habilis), upright man (homo erectus), working man (homo ergaster), pioneer man (homo antecessor), etc.

The same goes for socialism. Pure socialism cannot pass into communism in one go. There is a need for a TRANSITIONAL FORM between socialism and communism. And Lenin created such a TRANSITIONAL FORM between Stalin's pure socialism and communism.

Lenin named this form a SEMI-STATE, i.e., a SEMI-STATE and SEMI-COMMUNE, i.e., semi-socialism and semi-communism. It was Lenin's socialism in the form of SEMI-STATE and SEMI-COMMUNE that would peacefully go into communism.

In his typical manner, Lenin proved the theory of a new transitional form through the Hegelian principle of DEVELOPMENT.

The authors described in detail Lenin's theory of a new transitional form between socialism and communism. Similarly, they represented the practical TRANSITION TO COMMUNISM according to Lenin's model of SEMI-STATE and SEMI-COMMUNE.

The practical construction of communism according to Lenin's scheme of SEMI-SOCIALISM and SEMI-COMMUNISM

Factory level. The Board of Shop Managers is appointed by the Commune. The factory director is a subordinate of the Commune of Shop Managers. The Commune of Shop Managers is in a position to change the director a whole bunch of times. The director becomes an agent of the Shop Managers.

The Commune of Shop Managers resolves all issues COLLECTIVELY by using COLLECTIVE CONSCIOUSNESS.

Shop level. The Board of Shop Foreman is appointed by the Commune of Foreman. The Commune of Foreman is in a position to change Shop Manager a whole bunch of times. The Shop Manager is an agent of the Commune of Foreman. The Commune of Foreman resolves all issues COLLECTIVELY by using COLLECTIVE CONSCIOUSNESS.

Work team level. The work team is appointed by the Commune. The work team is in a position to change Foreman a whole bunch of times. The Foreman is an agent of the work team.

The scheme is clear. Each chief hands over power to subordinates and takes share of power from his chief.

According to Lenin's scheme, elections are not needed. Everyone keeps their position. But what will be changed?

Marx: "In the world of essences, political economy is the science of the PRODUCTION RELATIONS OF PEOPLE".

Communism will change the production relations of people.

Production relations of people under		
capitalism	socialism	communism
Commodity-money, i.e. greedy	With COMMANDS, i.e. machine	very common – human relations

What will happen if a factory operates under Lenin's scheme?

Under socialism, people were analogous to the cogs in the wheel: "Give a command, receive a command". And the whole factory operated as if it was a huge robot. The factory did not have the COLLECTIVE CONSCIOUSNESS and consciousness itself. Under communism, everyone will put a thinking cap on, start to prove their point, thus raising the level of consciousness.

Under capitalism, they gain belly fat in America. Communism reverses the situation: people will gain knowledge instead of belly fat.

Important

The pyramid of power is a machine, a huge iron robot, where people are the cogs. But people will come to life. The TRANSFORMATION OF PEOPLE AND IDEAS will begin. Leaders will be changed on a regular basis. Why?

Example. A computer re-equipment of the factory is considered at the Commune of Shop Managers. And the Shop Manager is not able to make head or tail of it. In his stead, the best computer specialist goes to a meeting in the central Commune. Similar situations will be repeated.

And the great transformations of people and ideas will change the factory into a LIVING BEING.

§ 16.3. Lenin destroyed MONEY (greed) within the PARTY using partmaximum

The PARTMAXIMUM is the maximum salary for Communist Party members. Through the use of it, Lenin destroyed MONEY within the party. Lenin's logic is simple. If the communists want to destroy MONEY and GREED, they must start with their MONEY and their GREED.

Lenin issued a prohibition against having and accumulation of MONEY by leaders of communism and therefore by himself. Under Lenin's law on the PARTMAXIMUM, the leaders of communism have to live like workers. Lenin was the new Lycurgus. He proved that one must come through Sparta (a new Sparta) in the transition to pure communism.

Lenin knows that his Stepan Razins are still executive monkeys. As soon as he says: "Sparta", they will run and brandish swords without a second thought. Therefore, Lenin shook his finger and said: "NEW SPARTA".

Greatness of the Hellenes

Ancient Greece was the world's unique ethnic group that was born as a dialectic pair: ATHENS-SPARTA. There are undisguised conflict and unity of opposites. This stage was the stage of embryonic dialectics. There was a divarication of the one.

The next step is metaphysics. A metaphysical conflict took place between Athens and Greece. The metaphysical conflict means the war. And the Athens-Sparta pair disappeared.

But this pair will be reborn under communism. A communist society will be both Sparta and Athens with Sparta-Athens transitions.

According to Lenin, communism will be Athens-Sparta, but ALLEGEDLY Sparta and ALLEGEDLY Athens, i.e. there will be no acts of cruelty and no elite.

§ 16.4. The statistical accuracy of Marx's theorems is determined. SIX DECIMAL PLACES!

Marx's theorems are satisfied within an accuracy of six decimal places.

Marx and Engels's theorem. Social existence statistically generates collective consciousness.

The theory of communism as a variable system was created two hundred years ago by the great Hegel. Later, it was developed by Marx and Engels. Lenin compiled a table of socialist categories, as well as communist categories. In addition, he set out all the practical measures for building the real communism.

But not a single left-wing leader knows about it!

1. Not a single left-wing leader knows what DIALECTICS is, i.e. none of the left-wing politics knows that dialectics is the science of a VARIABLE WORLD.
The left-wing leaders all over the world do not even understand the meaning of the term DIALECTICS. Do you doubt? Ask any great leader and he will give you a lecture for an hour.
2. Not a single left-wing leader knows the Hegelian scientific definition of the state.
3. Not a single left-wing intellectual knows Marx's THEORY of the UNIVERSAL MAN.
4. Not a single left-wing intellectual knows what PURE COMMUNISM IS.
5. Not a single left-wing leader knows the difference between the socialist and communist categories. He cannot give examples.
6. Not a single left-wing leader knows that all the provisions of the Hegel, Marx, Engels and Lenin's theories are RIGOROUSLY PROVEN. None of them have a clue that there is proof of theorem.
7. All left-wing leaders are not scientists but PRIESTS of SOCIALISM. They even sound like priests: "Marx himself said". Compare: "The Buddha himself said".

How is it so? Why does no one know the theory that was created two hundred years ago?

Theorem. The intelligentsia exploits the COMMON PEOPLE by means of a rigid unfair DIVISION OF LABOUR.

Consequence. The existence of the LEFT-WING INTELLECTUALS is BOURGEOIS. The left-wing intellectuals are also exploiters. Exploitation by a rigid unfair metaphysical division of labour is none the worse than the exploitation by a capitalist.

Under Marx's theorem, the left-wing intellectuals have a bourgeois philosophy. Which is why the left-wing intellectuals are unable to understand Hegel's dialectics and Marx's theory.

What is this all-powerful huge bourgeois poop that suppressed millions of left-wing intellectuals? It is called the idea of ELITISM.

Question. Why could not the left-wing intellectuals understand the complete theory of communism?

The death sentence imposed by Lenin: "The left-wing intellectuals are a BOURGEOIS STRATUM".

The left-wing intellectuals exploit people using an UNFAIR DIVISION OF LABOUR and want to exploit the common people for eternity.

§ 16.5. The historical role of socialism is monopolization. But CAPITAL accomplished a mission of socialism. Thus, socialism is not needed, and not possible.

Why was it impossible to build communism between 1917 and 1930? Socialism is needed not for the suppression of the bourgeoisie, but for monopolization. It was necessary to monopolize the petit-bourgeois peasant class.

§16.6. E-money is the death of TECHNICAL MONEY, i.e. the technical base for the destruction of POLITICAL ECONOMIC money is already present.

There was a monetary reform in Federal Republic of Germany after the war. The Germans destroyed 95% of the money in a day. They handed over 30 DEM per person, and they destroyed the speculators and shadow economy in a day. And the industrial sector came alive again!

§ 16.7. Lenin compiled a table of categories of political economy of socialism. But no one knows it!

The theory of the duality of socialism as a system

Lenin's theorem. Socialism is a semi-communist and semi-bourgeois system.

Hegel's theory. TRUTH IS a PROCESS.

The leader says that the truth can be found only in EVOLUTION of CATEGORIES and IDEAS. An evolution must be created for each category.

This table shows both Lenin's theory of duality and Hegel's evolution.

We show that the evolution is as follows: Money → token money → token.

Political economy of capitalism	Political economy of socialism	Author	The political economy of communism
Living	half-dead		Dead
Money	token money	Lenin	TOKEN (Labour vouchers under Marx). They are dead money
Commodity	Commodity-Product	Lenin	Product
Unfair	Semi-fair system, i.e. fair-unfair system	Lenin	Fair
Inequality	Semi-equality, i.e. equality-inequality	Lenin	Equality
Proletarian (hired worker)	Worker: semi-worker and semi-creator	Lenin	Creator
Labour force	Labour		Creation
Labour time	Labour time. But the working people did not spare their lives. Thus, they spent their free time		Free time

Lenin proved this theorem twice. For the first time, he used the Hegelian PRINCIPLE of DEVELOPMENT (principle of continuity). For the second time, he used Marx's theory "Inequality of communist law".

Consequence. All categories of the political economy of socialism are DUAL-COMPOSITE. They are composed of two categories: communist and capitalist.

Lenin's complete table of categories can be seen in Book IV "Lenin built the political economy of both communism and socialism". It also contains a detailed explanation of each category.

Lenin's theory of the dual role of trade unions under socialism.

Lenin's theorem. In contrast to capitalism, under socialism the role of trade unions must be dual.

- 1) For one part, trade unions must protect workers.
- 2) For the other part, trade unions must participate in the industrial engineering, organization of the experience transfer. Persuasion, making low-performing workers do their job, encouragement of foremost workers.

The theorists of the bourgeois system raised an objection: "It is bad that the trade unions should coerce the workers. They should only protect them".

Answer: Under socialism, there was procuracy that is a government bureau concerned with ensuring administrative legality in the former Soviet legal system. The procuracy protected workers far better than the trade unions did. Under capitalism in Russia part of the procuracy, which adore the rich and despise the poor workers, deliberately came down to the capitalists' side.

Trade unions are parasites. That is why they will disappear under communism.

Lenin developed the theory for himself. If he had organized the work of factories on the basis of COLLECTIVITY, there hardly would have been much coercion. Although coercion was necessary back at the time. As distinct from Germany, Russia was a peasant country. And the peasants are anarchists.

Results. Lenin derives all practical measures from Hegel's theorems, i.e. theorems of dialectics.

Lenin's theorem on the dual role of the working class under socialism.

Lenin's theorem. Any state means oppression. The workers are obliged to fight even against the Soviet state while also cherish it as the apple of their eye.

Source: Lenin quotes <https://burido.ru/843-tsitaty-lenina>.

Lenin led the socialist revolution.

Lenin built a socialist state that is also a machine of coercion and violence.

Theory of Communism. The COMMAND of the head teacher is the worst COERCION against teachers.

What was the main difficulty in building socialism?

In contrast to Germany, there were few regular proletariats in Russia. The country was anarchistic. The front-line soldiers feared neither Heaven nor Hell.

As distinct from Germany, there was NO STATE in Russia, neither socialist nor capitalist. LENIN'S COMMANDS were NOT FOLLOWED. The local revolutionary leaders did whatever they wanted.

There was bread in Russia, but it was impossible to deliver it to the regions suffering from starvation. There is no executive state machine that follows all commands right away.

So, there is no STATE. And this is a quick, even instant death.

It was necessary to rapidly create a state machine. That is why Lenin needed people like Stalin. With fire and sword, Stalin created a great machine called a socialist state and thereby saved socialism.

However, the socialist state is also a coercion machine, according to Lenin and Marx. This machine has its own will and can needlessly coerce people.

So what is to be done?

Let us quote leader's immortal thoughts once again.

Lenin's theorem. Any state means oppression. The workers are obliged to fight even against the Soviet state while also cherish it as the apple of their eye.

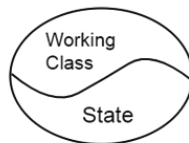
Source: Lenin quotes <https://burido.ru/843-tsitaty-lenina>

Discussion of Lenin's theorem.

- 1) On the one hand, the workers must make every effort to support the socialist state and fight for it for dear life.
- 2) On the other hand, the workers must also fight against the disadvantages of the socialist state. And the state always has these disadvantages.

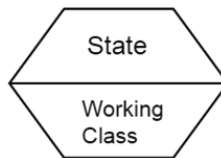
Recall that there were very few regular experienced workers in Russia. Under the socialist state, peasants, who were former revolution heroes, were turned into proletarians. Coercion was needed. How difficult it is to make the heroes of the revolution work hard. And Stalin got this job done by fire and sword.

But complete oppression of the working class by the socialist state was not on Lenin's agenda. Lenin made the struggle and unity of opposites, i.e. he built an embryonic dialectical pair:



An embryonic dialectical pair is able to pass into a real dialectical pair, i.e. it is capable of unlimited development and constant modernization.

Stalin's state completely oppressed the working class, i.e. Stalin built a metaphysical pair:



The metaphysical system was destined for failure without Lenin. But if transformed into a dialectical system, the USSR could pass into communism.

Conclusion. The theory of the dual role of the working class under socialism follows from Lenin's theorem on the duality of socialism.

The dual role of Stalin

After the death of Lenin, Stalin laid a course for mass literacy, collectivization and industrialization. Stalin: "We must achieve collectivization and industrialization in ten years. We must make the way that took the capitalist countries a hundred years. Failing that, there will be death". All the other great leaders were against it and attacked Stalin. Stalin hardly withstood attack. But he was supported by workers and communists.

The theory of socialism in the form of a monopoly and a single socialist state was developed by Lenin. He assures that there should be a unified property, i.e. the property of the socialist state. Under Lenin's theory of duality, socialist property is semi-public and semi-non-public.

Under communism, property will also be unified. Communist property will be completely public. Public property will appear only if The Global Commune, socially uniform system, is born. Under communism, the division of society into classes (workers and intellectuals) will be eliminated.

Stalin's merit

Back in 1930, there was no regular proletariat. In the USSR, there was nothing but famine and total illiteracy. By 1941, factories and universities were built and scientists and workers did their job. The first generations of literate youth grew up and saved the USSR and socialism.

It is difficult to realize how such a giant leap into the future could be made in ten years. If there had not been Stalin, then Leon Trotsky, Nikolai Bukharin and other petite bourgeois leaders would have won. And this would mean death, because only ten years remained before death. Thus, Stalin was an outstanding leader of socialism during that time.

Stalin's negative role

But the terrible year of 1937 is also the truth. The historical reason for the events of that year is that the country was a peasant and petite bourgeois. Illiterate peasants are inclined to religion and the deification of leaders.

Lenin: "Petite bourgeois anarchy has swept the small regular proletariat".

Czechoslovakia was an industrial country with a larger regular proletariat. Petite bourgeois anarchy and the events of 1937 could not take place in Czechoslovakia.

Thus, Stalin's role was dual

Conclusion. Lenin's theory of the duality of socialism was confirmed in Stalin's personality with terrifying accuracy.

Lenin led the communist revolution in parallel to the socialist one!

But the communist revolution is a negation of the socialist revolution. It is directed against the socialist revolution. Communism will remove the socialist state from power and create a global Commune. However, the transition from socialism to communism is only a semi-class revolution with reference to Lenin's theory of duality.

Therefore, it could take place peacefully according to Lenin's semi-state and semi-commune scheme. But the left-wings abandoned Lenin and Marx. They rejected Marx and Lenin's doctrine of communism as a society without a state.

Lenin built COMMUNISM, not SOCIALISM!

(Socialism supposed to be a temporary transition period according to Lenin and Marx)

1. Lenin's work "A great beginning". Quotes:

"The word 'commune' is being handled much too freely. It is being not infrequently forgotten that this very honourable title must be won by practical achievement in genuine communist development".

Author's note. Lenin means that the Communes are not state institutions with chiefs. They should not be confused. Only real communes must be termed as Communes, i.e. societies of equals without chiefs.

2. The original version of the article "The Immediate Tasks of the Soviet Government"

The quote: "Each FACTORY, each artel (company) ... is an INDEPENDENT COMMUNE with an internal organization of labour. In each COMMUNE, there is an increase in **SELF-DISCIPLINE**. This is how we can and must ensure that the influence of example becomes, above all, a moral model for the labour organization, and then a coercively introduced model in the new Soviet Russia".

Analysis. By the Commune Lenin understands precisely the Commune. Take note of that the commune must have SELF-DISCIPLINE. Under socialism there was the DISCIPLINE as well, which is

as it should be. However, it is not the same. The COMMUNE is SELF-MOVEMENT, and socialism is the MOVEMENT under the leadership of the socialist state. They are absolutely opposite.

3. Lenin's work "How to organize competition?". The quote:

"All COMMUNES – any factories, and any villages – must compete with each other. These are the practical successes our COMMUNES should be proud of".

4. Rough outline of the DRAFT PROGRAMME. The 7th Congress of the RCP(b).

"Organisation of competition between the various communes".

5. Lenin "Measures governing the transition from bourgeois-co-operative to proletarian-communist supply and distribution" Lenin's Collected Works, book 37 pages 471-472.

"The whole difficulty of the task springs from the fact that we have to work out a system of practical measures governing the transition to a REAL COMMUNE".

Discussion. Note that LENIN emphasizes THE REAL COMMUNE on purpose.

6. Lenin "Speech Delivered at the First Congress of agricultural COMMUNES and agricultural ARTELS"

DECEMBER 4, 1919

The quote: "We shall bring about situation when each of the SEVERAL THOUSAND EXISTING COMMUNES will become a genuine nursery for COMMUNIST IDEAS and VIEW".

Question: Where have THOUSANDS of Lenin's communes gone?

The communes did not fall to pieces, but were DESTROYED. Even congresses of COMMUNES and ARTELS were HELD under Lenin.

Communes and the socialist state are not compatible. Communes raise proud and insubordinate people. Socialism and communism are opponents.

Lenin uses both terms 'artel' and 'community' as synonyms for the 'commune'. But it is important to realize that the old commune is a primitive one. The modern scientific community is the theater community, the university community, the Academy of Sciences community, and the division community. Scientific communities (communes) are most effective in the most complex sectors

7. Lenin's work "Addendum to the draft regulations on subbotniks".

"Subbotniks are a form of propaganda of the ideas of compulsory labour service and SELF-ORGANISATION of the WORKING CLASS".

Discussion. When Lenin uses a prefix SELF-, it is referred to the THEORY of COMMUNISM. After this comment, any worker can distinguish Lenin's theory of socialism from theory of communism. We have given only a small number of examples demonstrating that Lenin built both socialism and communism.

All quotes are from "On COMMUNIST LABOUR" by Marx, Engels and Lenin.

Caution: do not even think of building a primitive commune

The difference between a global scientific commune and a primitive agricultural commune is the same as between Heracles and the germ cell thanks to which he came into being.

Marx's commune is a rotating system. Marx's commune is a revolving galaxy of people. Marx's communes are the commune of the General Staff, the commune of the army, the commune of the Academy of Sciences, the commune of humanity.

Question. Is socialism a transitional system to communism? No, it is not. In the USSR, socialism was built as a separate system. Is it logical? Yes, it is logical.

After all, the evolution of societies occurs under the scheme: capitalism-socialism-communism. One system replaces another.

But what about Marx's doctrine of socialism as a transitional system?

Marx's proposition is to jump over socialism. Marx proposes not to build socialism and start building communism from the first.

Marx's theorem. Socialism is not a transition period, but it can and must be MADE a TRANSITIONAL SYSTEM to communism.

Under Lenin's theorem on the duality of socialism, socialism is a transitional system to capitalism. Why? The point is that the bourgeois side of socialism will be under progression.

Any system with money sooner or later becomes capitalism. After all, money always wants to turn into capital. Under socialism there was an evolution of money, but the evolution of money is the evolution of greed. Money is a self-increasing greed of people.

Biological evolution starts with the cell. The evolution of money also starts with a cell, which is a LABOUR PENNY (wage). Evolution must be killed!

Lenin: "PAYMENT ACCORDING to LABOUR is BOURGEOIS". Lenin: "WAGES must be DESTROYED".

You need to kill your LABOUR PENNY to get the evolution of greed killed. CAPITAL will die as a consequence.

Lenin executed Marx's plan "Jump over socialism"

Lenin was building a socialist state and teaching the workers to neutralize its disadvantages. And when the workers become literate, then the chiefs will go by the board. Lenin wanted abolish the socialist state, i.e. to abolish himself as the chief.

It was difficult for Lenin.

Russia is not Germany. Almost the entire nation (80%) could neither read nor write. Russia was a peasant country, and the peasants are the petite bourgeoisie. There was no state. There were no disciplined regular workers to follow orders.

Lenin was building a state that did not exist. He also taught the workers (who were few) to abolish the state when it is built.

Lenin was leading two revolutions at once. He was also led a communist revolution against socialism that had not yet been built. Socialism must first be built and then abolished.

The October Revolution was organized by Lenin ALONE

The Central Committee (CC) was against the revolution and rendered a decision to burn all Lenin's letters! Why? They were intellectuals. They were afraid.

Заседание ЦК РСДРП(б)
1917.09.15 (1917.09.28)– 1917.09.15 (1917.09.28)

Присутствовали:

Троцкий, Каменев, Рыков, Ногин, Сталин, Свердлов, Бубнов, Бухарин, Оппоков [Ломов], Коллонтай, Дзержинский, Урицкий, Иоффе, Шаумян, Сокольников, Милиутин.

Порядок дня:

Письма Ленина.

Решено в ближайшее время назначить собрание ЦК, посвященное обсуждению тактических вопросов. Тов. Сталин предлагает разослать письма в наиболее важные организации и предложить обсудить их.

Решено перенести на ближайшее заседание ЦК.

Ставится на голосование вопрос, кто за то, чтобы был сохранен только один экземпляр писем.

За — 6, против — 4, воздержалось — 6.

Тов. Каменевым вносится предложение принять следующую резолюцию:

ЦК, обсудив письма Ленина, отвергает заключающиеся в них практические предложения, призывает все организации следовать только указаниям ЦК и вновь подтверждает, что ЦК находит в текущий момент совершенно недопустимым какие-либо выступления на улицу. ЦК вместе с тем обращается к тов. Ленину с требованием разработать в особой брошюре поставленный в его письмах вопрос об оценке текущего момента и политике партии.

Резолюция отвергается.

В заключение принимается постановление:

Членам ЦК, ведущим работу в Военной организации и в ПК, поручается принять меры к тому, чтобы не возникло каких-либо выступлений в казармах и на заводах.

Meeting of the Central Committee of the R.S.D.L.P.(B.)
September 15 (23), 1917

Attendees:

Trotsky, Kamenev, Rykov, Nogin, Stalin, Sverdlov, Bubnov, Bukharin, Oppokov [Lomov], Kollontai, Dzerzhinsky, Uritsky, Ioffe, Shaumyan, Sokolnikov, Milyutin.

Agenda:

Lenin's letters

The Central Committee decided to call a meeting shortly to discuss tactics. Comrade Stalin proposes that letters be sent to the most important organizations and that they be discussed. It is decided to postpone to the next meeting of the Central Committee.

The following question was put to the vote: preservation of only one copy of Lenin's letters.

The vote was six in favour, four against and six abstentions.

Comrade Kamenev moved the adoption of the following resolution:

After considering Lenin's letters, the CC rejects the practical proposals they contain, calls on all organizations to follow CC instructions alone and affirms once again that the CC regards any kind of demonstration in the streets as quite impermissible at the present moment. At the same time, the CC makes a request to comrade Lenin to elaborate in a special brochure on the question he raised in his letters of a new assessment of the current situation and the party's policy.

The resolution is rejected.

In conclusion, this decision is adopted:

CC members in charge of work in the Military Organization and the Petersburg Committee are instructed to take measures to prevent demonstrations of any kind in barracks and factories.

The October Revolution occurred in the following way:

Lenin came to the Central Committee. And kicking asses of so-called great leaders, forced them to take power.

In May 1922, Lenin was seriously ill. His last public speech took place on November 20, 1922. In essence, Lenin's active political life lasted only four years after the revolution. All this time he directed the fight against the Entente and the Whites. He was also building socialism at the time when there were famine and anarchy.

Lenin LED two REVOLUTIONS at ONCE!

In four years, Lenin

- 1) completely built the political economy of socialism, defining all its categories.
- 2) completed the Hegel, Engels and Marx's theory of Communism by identifying the missing categories.

Lenin allowed his comrades to deliver a speech for three minutes even. During their performances, he noted the time by a stopwatch! He spoke: "Your speech was a whole 30 seconds longer!"

Lenin knew that he was alone. He alone fought for everyone, for all of mankind.

From all sides, Lenin was attacked by his comrades

The country was peasant. Therefore, most of Lenin's comrades were petite bourgeois leaders with bourgeois traits: an itch for money, a hunger for power, a delusion of grandeur.

There were few proletarian leaders, i.e. leaders from the working class. There were no such people as Telman at all.

Neither Trotsky, nor Bukharin, nor the others were theoreticians. They were dull, lacking in understanding, with delusion of grandeur. Lenin led all of them forward, and they shortened Lenin's life.

How could one person perform such a formidable challenge? How could one person lead two revolutions in the face of a dying state? It is more than the human can bear. Lenin is not a human being. Lenin is the GOD of the REVOLUTION!

Lenin wrote his fifty five books in philosophical language. These books are philosophical and political scientific works containing theorems of dialectics.

Proof. Lenin's theorem.

"And at best it is an evil inherited by the proletariat after its victorious struggle for class supremacy, whose worst sides the victorious proletariat will have to lop off as speedily as possible, just as the Commune had to, until a generation reared in new, free social conditions is able to discard the entire lumber of the state" – Karl Marx and Friedrich Engels, Selected Works, Vol. 18, pp. 53-54.

Discussion. Lenin declared the socialist state EVIL_P! Was Lenin right? After all, the socialist state taught people and brought up millions of scientists. The socialist state saved humanity. And Lenin upped and severely criticized it.

Lenin is always right. Lenin is a great political philosopher. And his word EVIL_P is a philosophical category, not a literary expression. Therefore, we put the indice of the category EVIL_P.

And what is the difference between philosophical categories and ordinary words?

Lenin's theorem. Philosophical categories are the broadest.

EVIL _P as a philosophical category			
Juridical evil	Political evil	Pedagogical evil	Psychological evil
Murder, sexual	COMMAND or instruction from a head teacher is the worst COERCION against	Forced learning	Forcing a child to brush teeth

assault	teachers. An order of the general secretary is also EVIL. This is violence against the com- munists.		
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Example 1. Mother took the child in her arms and carried him to take a bath.

Did she do EVIL? From the viewpoint of philosophy, she did. No harm done if she did it one or two times. This is not evil, but the communication between the mother and her child. If she behaves in this way many times, then the child will grow up weak-willed.

Under the theory of communism, DISCIPLINE is EVIL. And discipline will be destroyed under the theory of communism and replaced by SELF-DISCIPLINE (Lenin).

Example 2. Under socialism, teachers forcibly keep D-students after school and worked with them. The teachers did a great job spending their time helping children. They did the right thing in the context of socialism. But from a philosophical standpoint, teachers committed philosophical (not political, not juridical) pedagogical EVIL. But this pedagogical EVIL was necessary at that time.

And what is not EVIL from a philosophical standpoint? An IDEA is not evil.

Theory of communism. Under communism, people can be controlled but by the means of emotions and IDEAS. This can be done only through personal example “DO AS I DO”, not as I commanded.

Under Lenin, the socialist state is a philosophical EVIL. Any COMMAND or instruction is violence under the theory of communism. The goal of communism is to destroy COMMANDS.

And what form of the philosophical EVIL_P of the socialist state will come out under socialism? Pedagogical evil will; everything is all right then. But even in this case, the socialist state will turn towards capitalism at the end of track. It will reverse. Perestroika meant that the socialist state had fulfilled its historical role. It got old. Ancient Rome and the socialist state died of old age.

Perestroika proved that Lenin was right. But Lenin is always right, because he worked under the theorems of Hegel’s dialectics. During perestroika in the USSR, capitalism was built by the STATE itself. According to Marx, the state is a machine. And it reversed.

Perestroika meant that the time had come for a communist revolution, not a socialist one. The Russians were one step away from pure communism. It was necessary to abolish the socialist state and set up a global Commune.

According to Hegel, the abolition of the state is understood as the abolition of MONOCRACY, but not the destruction of the army or the police. The army and police will become Communes.

Lenin: “Such an army is possible”. Lenin’s work “State and Revolution”

It means that communism is possible in a single state. But what about Marx’s idea of a worldwide communist revolution? According to Marx: if conditions are suitable in many countries, then a chain reaction is likely to start.

At the meetings of the Leninist party, soldiers and generals addressed each other informally. They were equals, they were brothers. Addressing each other formally was prohibited by Mehli’s special decree.

Heroism of Lenin

On the morning of August 30, 1918, Uritsky was killed. The left Socialist-Revolutionaries, who were part of government, began the hunt after Lenin. The chairman of the Cheka (The All-Russian

Extraordinary Commission) was Dzerzhinsky. The left SRs were his deputies and they arrested Dzerzhinsky during the uprising.

Lenin's relatives and comrades dissuaded him from giving a speech that day. But Lenin was adamant about it and went to face certain death.

On August 30, Lenin gave a speech unguardedly! After performance he was wounded. Lenin's heroism shook the Russians to the core; they realized that they had a great proletarian leader. Brave men, Stepan Razins, began to join the party. The net result is that socialism won due to Lenin's heroism. After all, the size of the party is unimportant. Nothing matters more than great fighters, Stepan Razins.

The first attempt on the life of Lenin

For the first time, the SRs sent a socialist-revolutionary worker to kill Lenin. The socialist-revolutionary worker stood next to Lenin and had a chance to fulfill an order. But he did not shoot. The SRs asked him why. His reply was as follows: "I could not take away the God from two thousand of my comrades". From that moment on, the Socialist-Revolutionaries have ceased to trust the SR workers.

Death of Lenin. Lenin: "I am the same as EVERYONE"

Lenin was dying, but he did not eat delicacies. Why? Lenin: "I AM THE SAME AS EVERYONE". However, he ate good food one of these days. The next moment, Nadezhda Krupskaya, his wife, entered. Lenin started crying with shame. He swore himself.

He told himself: "Shame on you! You led Stepan Razins to the battle for EQUALITY and COMMUNISM. And when at death's door, you immediately began to eat delicacies".

Communard!

If you cannot understand Lenin's theory of communism through the example of his life, then study it through the example of his death.

The leader did not want to save his perishing life. He knew to whom his mighty but primitive Stepan Razins would be handed over. They would be handed over to the so-called intellectuals-leaders.

Lenin introduced uniform for soldiers and generals. Lenin built a commune-communism YOU ARE the SAME as EVERYONE.

During perestroika, it was possible to build pure communism in the USSR as follows:

1. To destroy the position of general secretary.
2. To abolish the Politburo.
3. To declare the Central Committee of the Party a PARTY COMMUNE. To resolve issues by COLLECTIVE CONSCIOUSNESS, not by COMMANDS.

Consequence

All authorities would be reorganized under Lenin's scheme of semi-state and semi-commune. A peaceful transition to communism would occur. Labour productivity would increase. A faith in pure communism would be born.

Under Lenin's scheme of semi-state and semi-commune, not a single chief should be fired in semi-socialism and semi-communism. Elections are not needed. Production relations should be replaced by human relations at every level of management.

According to Lenin's scheme, theft and delusion of grandeur are impossible. People should turn from robots into people. A new evolution will begin, i.e. the human evolution.

But Lenin is forgotten. All left-wing parties gave up on him. Not a single left-wing party in Russia wanted to be called Leninist and insert Lenin's name in the name of the party. Parties are not Leninist, therefore there is not a single working person in all the left-wing parties of Russia.

Only two websites are dedicated to Lenin on the Internet!

Under Marx, socialist COMMAND production relations outlived their usefulness. They must be replaced by communist production relations, which are ordinary human relations. It is necessary to communicate with the help of emotions, logic and IDEAS. People are not robots.

Example. Try to interact with your wife like this: "Wife, wash the floors. Cook dinner. Undress and go to bed". In a short time, she will pour a plate of soup on your head.

Under communism, communication with your brothers should be the same as with your wife: gently, persuasively.

And hundreds of thousands of left-wing theorists cannot understand this. Why? The reason is that the left intelligentsia exploits the COMMON PEOPLE through an unfair DIVISION OF LABOUR. Therefore, all their thoughts are exploitative. Marx's theorem "Social being statistically generates social consciousness".

Hegel is right: "The rigid division of labour must be abolished. It is necessary to replace the metaphysical division of labour with a dialectical one, i.e. with VARIABLE.

The first embryonic communist (non-socialist) revolution in Russia was in 1874. It is called GOING to the PEOPLE for MANUAL LABOUR.

Marx's theorem. With the emancipation of labour, EVERYONE will become a WORKER! And productive labour will cease to belong to a certain class. Marx. Civil War in France.

Lenin: "The intelligentsia is a bourgeois stratum".

Consequence. Therefore, even the left-wing intelligentsia has a bourgeois consciousness and a negative attitude towards the ideas of equality and communism. The left intelligentsia believes that the COMMON PEOPLE should serve them throughout the thousand years of the new socialism. They turn up the thumbs on eternal slavery. They are worse than priests who promise equality in Kingdom of Heaven. The left intelligentsia does not promise equality even in the communist paradise.

The intelligentsia exploits COMMON PEOPLE by means of the unfair division of labour. It develops its talents on the backs of the working people.

Under communism, the intelligentsia will have to become SCIENTISTS-WORKERS and head over to SELF-SERVICE: to wash their toilets and work in the canteen in turn.

We have to prove logically that the Going to the People (1874) had the features of a communist revolution, not a socialist one.

Answer. The revolutionary youth realized that the INTELLECTUALS are the exploiters of the working people.

Pyotr Lavrov, a Russian theorist of populism: "Intellectuals, return the favor to the people!".

Wikipedia

"The youth of St. Petersburg was overflowing with energy and fired up by their great expectations and sense of mission. Everyone was overtaken by a ferocious thirst to dissociate oneself from the old world and dissolve in the element of the people in the name of its emancipation. People trust their

great mission implicitly, and there was no earthly reason to call in question this belief. It was ‘a kind of purely religious ecstasy’, wherein rationality and sober thought no longer had any place. And this collective excitement grew continuously until the spring of 1874, when a real, truly crusade to the villages of Russia began from almost all cities...” (from the memoirs of N. A. Charushin).

“To the people! To the people!”. There were no dissidents. Everyone agreed on the need for students to take up a manual trade before going ‘to the people’. They must also be able to turn into a working man, a craftsman. Hence there was the increase in the organization of all kinds (carpentry, shoemaking, blacksmithing, etc.) workshops, which began to grow throughout Russia like mushrooms after rain from the autumn of 1873. Then it got to the point that those who wanted to finish their education, even being in their 3rd or 4th year, were called traitors and scoundrels. Workshops began to grow in place of schools.

The most important is:

“Before ‘going to the people’ it is necessary to acquire skill in a manual trade, i.e. BE ABLE TO BECOME A WORKING PERSON”.

Coming to the peasants with propaganda is called coming for tea-drinking. Under the communist revolution, propaganda of the revolution is prohibited. There can be only SELF-PROPAGANDA (Lenin’s category). The propaganda of the revolution by left-wing intellectuals is actually counter-revolution. After all, they call the people to the revolution to drive out the capitalists.

The future communist revolution is the SECOND GOING TO THE PEOPLE for MANUAL LABOUR. We will not leave the people anymore.

The thoughts and actions of that great Russian revolutionary youth are applicable for the program of the future revolution.

Communism slogan is INTELLIGENTS! RETURN the FAVOR to the PEOPLE!

The great leaders of the future revolution should BE the FIRST to go to the PEOPLE

(for two days according to variable division of labour).

But the first great communard is already standing on the battle field. The Great CHE GUEVARA returned with the Second Coming. He went to the people first. He was a minister, but worked as a worker on weekends. He had 14 working professions.

The Hegelian triad:

The Going to the People of 1874. We all came out of the people. The Second Going to the People. the NEGATION of the NEGATION!

The Going to the People was led by the organization named the GRAND PROPAGANDA SOCIETY, which was a party Commune. This organization did not even have its own CONSTITUTION. Constitutions are for robots. And they are great people. They did not have general secretaries. Moreover, they expelled people with delusion of grandeur. The grand propaganda society is the embryo of the future Communard Party Commune.

The Hegelian triad:

The embryonic Party Commune of 1874 is the Party of the Soviet Union in the form of a machine (except for Lenin’s stage), the future Communard party. the NEGATION of the NEGATION!

The Going to the People of 1874 has no analogues in the history of mankind.

The boys and girls of that time were divinely intelligent and very naive. They wanted to build communism quickly, and did not know that 150 years of fierce battles were ahead: great victories and terrible defeats. And tens of millions of their grandchildren will fall in battle.

The source: <http://chtooznachaet.ru/xozhdenie-v-narod.html>

The best book about the populists is “Crusaders of Socialism”, Troitsky N.A. – Saratov: Edition of Sarat. un-ta, 2002.

The title of the book couldn’t have been worse. Students left their studies at Moscow University and became workers. Do they look like crusaders? Nothing in common.

Lenin’s communist, non-socialist revolution.

Lenin led a real communist revolution. He introduced the ideology of EQUALITY into the party. Then 1,000 communes were created.

There were thousands of street children in Russia after the Civil War and the World War I. Many of them were criminals. Communes for street children began to be created by order of Lenin. Felix Edmundovich Dzerzhinsky was director of the All-Russia Extraordinary Commission to Combat Counter-revolution and Sabotage – usually known as the Cheka. In 1927, Makarenko was appointed as the head of the Dzerzhinsky labour commune, an orphanage for street children. Lenin was an idol (and so were Marx and Engels) for Anton Makarenko. Makarenko spent every penny he earned – searching for Lenin’s works. And that is why he managed to build a real scientific Commune of young criminals. 5,000 people passed through the Makarenko Communes.

Logical analysis of the Makarenko Commune

The principle of dialectics: THE DIVARICATION of the ONE. The first theory of power under pure communism. In the Makarenko Commune, there was a division of power into two: operational power – strategic power. So, Makarenko created a dialectical pair.

Theory of Power	
Theory of Control	
under pure communism, not socialism	
Strategic power	Operational power
Strategic control	Operational control
The power of the general meeting	The power of the duty officer
The general meeting	Dispatching
Absolute power.	The dispatch operator is Stalin, but he is temporary, for one week. The dispatch operator is Stalin, but dialectical. Stalin is allegedly Stalin. He is a temporary dictator.
<div><div>Власть</div><div><div><div>оперативная</div><div>стратегическая</div></div><div><div>диспетчеры</div><div>общее собрание</div></div></div><div>=</div></div>	

The Law of Identity of Communes: “All communes are identical”

There are no two different mathematics or two different political economies. Therefore, all Communes are identical from the standpoint of political economy. For that reason, the General Staff Commune will function in the same way as the Makarenko Commune. Here is a description of the General Staff Commune on the example of the Makarenko Commune.

Preface. The whole army is a commune. Lenin: “Such an army is possible”. Lenin’s work “The State and Revolution”. Generals and soldiers wear the same uniform and eat the same food. They have the same salary and apartments. Generals also wash the toilets and work in the dining room. There is no exception in the theory of communism. Lenin: “I AM the SAME as EVERYONE”. Exception is considered treason to communism. EQUALITY GENERATES BROTHERHOOD. There are fraternal relations between soldiers and generals.

Army Commune	
The General Staff Commune	
Power in the Commune	
Strategic power	Operational power
Power of the Commune of Generals	Power of the General on Duty
The army is ruled not by soldiers, but by a collective – a commune of Generals.	The General on Duty is temporary (kind) Stalin.
If there are twenty Generals in the Commune, then the general meeting of twenty Generals is the highest strategic authority in the army. The general meeting is the highest authority only when 80% of the Generals are present at the general meeting.	All generals and the whole army obey the General on Duty. If the General on Duty shouts “War”, then the whole army and generals will be on the move. There is no one higher than the General on Duty in the country.
The dialectical contradictions in a dialectical pair	
The Commune of Generals can only replace the General on Duty when the generals are gathered together.	The General cannot change the command of the General on Duty alone. It means that the General on Duty is above him when he is alone.

The second theory of power under pure communism. According to Hegel’s idealism, IDEA (not a person) will rule under communism.

The striking example:

The Law of the Commune. The general meeting can be started only by the duty officer of the commune. So Makarenko has no right to start the general meeting.

The communards did not let the People’s Commissar on the podium!

In those years, it was the same as not letting Stalin on the podium.

Why did not the Communards let the People’s Commissar on the podium? Answer: The dictatorial power of the duty officer of the Commune expressed the OPERATIONAL POWER of the future, real communism.

Makarenko Commune was a Commune of leaders

Every communard was the commander of a temporary detachment and was infected with the ideology of Russian communard leaderism.

A real commune can only be a Commune of Leaders. And that is why the Makarenko Commune is the first scientific commune in the history of mankind.

Theory of inversion. Inversion of people and ideas.

There were permanent detachments and permanent commanders in the Makarenko Commune. And it is bad as permanent commanders can seize power, and it will be the end of the Communards.

Hegel is actually right. The leader is always right. The idea of Communism (not socialism) won in the Makarenko Commune. And the ideology of commanding became despised and insignificant.

The Commune was controlled by a Council of Commanders of Permanent Detachments between general meetings. But any member of the detachment instead of a permanent commander could come to the Council! And who came? Who had an IDEA! There is inversion of people and ideas in the Makarenko Commune.

Cleaning the toilet in the Makarenko Commune. Repetition of Labour of Heracles.

There was a big cleaning in the commune before the holidays. Only the best detachment could do the dirtiest work. Since cleaning the toilets was the highest honor to be earned. Only Great Leaders could clean toilets. Only the best detachment had the right to clean the toilets. The rest of the detachments did not deserve this great work.

The second coming of Heracles. Heracles rerouted the rivers Alpheus and Peneus to clean out the Augean stables. And the great leader of the communards is the new Heracles, so he should clean out the idea of elitism by cleaning public toilets. According to Hegel, if DARK IDEA is killed, it is a victory. All elite classes will also be flushed down the toilet.

The success of the Commune.

1. FED cameras were exported.
2. The productivity of labour of former street children was much higher than the productivity of labour of socialist workers. Communism defeated socialism.

	Here is a summary of the results
1	Dialectical pair of power: strategic-operational
2	Variable division of labour
3	Commune of leaders
4	Inversion of people and ideas.
5	Labour of Heracles. The second coming of Heracles.

The Makarenko commune was created by “terrible” Chekists (agents of the Cheka). Makarenko: “I met real communists in the Cheka”. Chekists defended the Makarenko commune, intercepted denunciations. Makarenko would not have lasted even a week without the Chekists.

Did the Komsomol members of the Central Committee of the Komsomol destroy the commune? Everything is the opposite! Why? The country was peasant. And most of the Komsomol members were the children of peasants. The peasants do not rely on their brains; their main goal is to execute orders in full obedience.

The pyramids of Egypt are monuments to all the great statesmen: Ramses, Frederick the Great, Stalin. The state is power, the organized power of millions. The state is the great Egyptian pyramids of power, created from living people.

The judgment of Komsomol members to the Makarenko Commune

The Makarenko commune is not a Soviet system, so it must be destroyed.

And Komsomol members are right. The Makarenko commune is not a socialist system. It is not a pyramid of power.

Why should it be destroyed?

The Communards do not go into the pyramid. They destroy the pyramid. They are enemies. The power of the Commune is in the IDEA. And the IDEA is something ephemeral. The peasants cannot realize the power of the Idea. They consider variable constructions weak and insignificant and the dead pyramid seems to them omnipotent.

Their thinking is metaphysical, not dialectical.

Khrushchev's Communist Revolution

1. Khrushchev followed Lenin. He understood that socialism is limited. Khrushchev's course on communism was correct, so he continued the course of Lenin-Marx. The main reason for the defeat of socialism is the rejection of pure communism. Socialism is a system with a very short lifetime, so you go either backwards or forwards. But if you do not go forward to pure communism, you go back to dirty communism.
2. The course towards pure communism stimulated work on the theory of communism. And those wonderful books that we have are the merit of Khrushchev.
3. Khrushchev saved the left-wing movement in Russia. Communism is incompatible with the torture and murder. The truth about 1937 had to be revealed. If there was no Khrushchev, there would be transition of Russia and other countries of socialism to capitalism anyway. But if the truth about 1937 had been revealed at the beginning of perestroika, then the left-wing movement would have come to the end.

But Khrushchev published only part of the truth, what was right. Otherwise, there would be a new 1937 (Khrushchev's words).

4. Khrushchev wanted to build communism, but he did not understand that communism is a rejection of monarchy, and a transition to collective life. Khrushchev did not understand that communism would abolish him.
5. Khrushchev wanted to destroy the army shoulder marks. And he was right: everybody counts or nobody counts.

An attempt to solve the SECTOR-TERRITORY problem.

The problem of cross-hauls in the USSR: one ministry transports concrete blocks from Moscow to Leningrad, and another ministry transports the same concrete blocks from Leningrad to Moscow for decades!

And it is impossible to organize an exchange, although the exchange is beneficial to everyone. There will be no need to transport blocks at all. Why is it so?

The SECTOR dominates the TERRITORY under capitalism and socialism. The sectoral system dominates the territorial system. Such a phenomenon is described by a metaphysical pair:



The theorem of philosophy. The exclusion principle. Two categories cannot fully manifest simultaneously; one category excludes the other at every moment of logical time in a metaphysical pair. The situation is the same in a dialectical pair. However, pay attention to the word “FULLY”.

Consequence. Only the SECTOR is in the foreground under capitalism and socialism. The territory category is almost invisible. Therefore, the SECTOR category is in capital letters, and the territory category is in lowercase letters.

The ministries of the USSR are huge political economic machines that rotate at high speed. Interaction is impossible without a theoretical solution to the problem.

Khrushchev saw the problem of cross-hauls. And he decided to break the sectoral management system and approved the territorial system. Sovnarkhoz (Regional Economic Soviet) was created in each region, and the sectoral enterprises were subordinated to the territorial authorities. Khrushchev's metaphysical pair began to look like this:



However, a new trouble arose. Now sectoral systems began to deteriorate.

Khrushchev's experiment ended sadly for him. He was dismissed.

The cause of the death of socialism is that any state is a metaphysical system. There are no dialectical states.

Marx-Engels theorem. Social being statistically generates social consciousness.

Consequence. All chiefs of the enterprises and ministries are METAPHYSICIANS, they cannot develop dialectical thinking. Dialecticians can be only theorists. Socialism was destroyed by the metaphysicians.

This fact is clear in the example of Khrushchev. After all, it is obvious that it is necessary to organize the interaction of the sector and the territory. But one category excludes the other for the metaphysicians. And the metaphysicians see only one category.

Hegel's solution to the problem SECTOR-TERRITORY.

It is necessary to create a dialectical pair:



For this we need:

1. Make both categories dialectical, i.e., living, i.e., variable:
2. Organize the unity of these categories.
3. Organize the struggle between these categories. But the struggle must be dialectical, not metaphysical.
4. In this dialectical struggle, categories will win each other in turn. TRANSITIONS will start: sector $_1 \rightarrow$ territory $_1 \rightarrow$ sector $_2 \rightarrow$ territory $_2 \rightarrow$ sector $_3 \rightarrow$ territory $_3 \rightarrow \dots$

Lenin posed a problem TERRITORY-SECTOR!

Did Lenin know the solution? Did God know that he was a god? He did. Lenin was a dialectician.

Lenin knew everything. He knew the solutions to all the problems, but he had no assistants from the proletarians. The country was peasant and illiterate. Eighty percent of the people could neither read nor write. There was no Thälmann with his literate workers.

How can Hegel's dialectics help to solve the problem sector-territory?

The principle of equality of categories in a dialectical pair: Categories are equal.

The principle of the opposition of categories in a dialectical pair: Categories are opposite. And it means that the categories in the dialectical pair are qualitatively different from each other.

Consequence. The TERRITORY management should be different from the SECTOR management.

A practical solution to the problem of TERRITORY management.

At the regional and city level

1. 5% of money, machines, labour-power, and materials are withdrawn from all enterprises.
2. All received money and machines are combined.
3. A congress of directors of all enterprises of the region or city is assembled. All of them unite into a single territorial collective firm.
4. The collected money, machines, and materials are transferred to this huge territorial firm, to the collective property of all directors. In other words, money, machines, and materials are returned to directors of all enterprises.
5. Moreover, the region or city supplies its own huge resources: money, labour-power, mineral deposits. Another very important aspect is that scientists from universities can come from the city or region to unify science and production. Plus, legislative assistance.
6. Who manages this firm territory?

Answer: it is impossible to manage such a firm on the principles of MONOCRACY. The directors will not obey and the firm will be finished. So, it is impossible to apply socialist or capitalist forms of management. Management should be collective.

How many votes can each director have? There are two options:

1. The bigger the factory, the more votes the director can have. Such a system can work under capitalism, not under socialism. Why? Small enterprises will leave and bring great loss.
2. Each director has one vote. Will then the directors of large enterprises leave? No, they will not. They will take advantage of it. Besides, the influence of large enterprises in solving real problems will be great. Thus, a collective territorial firm can exist only on the principles of communist equality.

At the state and USSR level.

1. 5% of all resources are withdrawn from all ministries of the USSR. Resources are combined.
2. An assembly of all ministers is organized.
3. A territorial collective firm is created.
4. Resources are returned to the ministers for collective use.
5. The Supreme Council and the Senate provides their capabilities. And they are huge.
6. A communist management system is introduced on the principle of equality: one minister has one vote.

Why did not the leaders of the USSR find such a solution? There are two reasons:

1. Leaders are metaphysicians.
2. They are thing fetishists, i.e., pyramid-headed. Their brains are pyramid shaped.

The Stalinists shout: “Stalin, Stalin!” But in fact they shout: “State, state, pyramid, pyramid!” So Stalin is the personification of the pyramid.

For thirty years Russian left-wing parties have been fighting for the second socialism. Their slogans are: “Pyramid, pyramid! We are building into a pyramid”. But it is useless. The pyramid is not growing. The times of the Egyptian pyramid of power have gone down in history. The socialist idea is dead. The word “comrade” disappeared from the Russian language. Nobody uses this word anymore. Comrade is a half-brother in the Leninist duality of socialism. The comrade can die for you, or kill for failure to obey the command.

There will be no comrades, but there will be brothers under communism. And the day will come when all will shout “BROTHERS”. After all, the future communard revolution is the last BROTHERHOOD on planet Earth.

What would give the solution to the problem of SECTOR-TERRITORY for the economy of the USSR?

It would double the economy of the USSR.

The Cause of the Great Terror in 1937. Hegel’s idealism

Here is Hegel’s method of work. Hegel proved various theorems with the help of IDEALISM.

Hegel’s theorem. All categories are living beings.

1. They are born, bloom and die.
2. Each category strives to reach the pinnacle.

Categories are born in the form of embryos. Then the metaphysical stage of their life comes: they are cocooned, they are butterfly caterpillars. They are dead compared to the butterfly. It is the principle of relativity. Then, finally, they become butterflies.

Consequence. Ideas die, like people do. The idea of a Republic died in the souls of people in the West. The socialist idea also died of old age. And no one is to blame for this.

And no one can revive the rotting corpses of ideas.

Thousands of years ago, the IDEA of a State, the Idea of a Great Machine, the Idea of a huge Robot, the Idea of a huge pyramid was born. The Idea grew and grew and became a great IDEA. It became an IDEA-GOD. And this Idea is the SPIRIT of the state.

Hegel's theorem. The IDEA must be embodied.

And in 1917, the great IDEA-SPIRIT was flying over the planet and looking for a body, for great priest. It wanted to materialize and it found Stalin, a man with a heart of stone.

The Idea said to Stalin: I appoint you as my Great Priest. Serve me faithfully and I will take you to socialist heaven and give you immortality. You will become God and my eldest son. Build a pyramid. The pyramid is my future body. Use living people as stones. The pyramid should be great and perfectly smooth. If a man's hand or head sticks out of the pyramid, cut it down.

Do not listen to Marx. Marx is bad. He wants to kill me. Chop off the heads of Marxists, Leninists, and anarchists. Chop off the heads of everyone who does not want to get into the pyramid.

When you build the great pyramid, I will get my body. I will materialize. And then the universe will shudder.

I will give birth to millions of robots, your loyal Stalinists. And you will save Russia and the USSR. You will defeat all nations. You will be remembered for thousands of years. Your younger brothers Pharaoh Ramses and Frederick the Great are already gods. They are immortal.

Frederick the Great stated that he was the first servant of the state. Frederick: "I am a priest of my God, the Great Pyramid".

Stalin, Pharaoh Ramses, and Frederick did not rule the state. A priest cannot control his God. Frederick: "I am a servant of the state". The pyramid God controls his priests and through them the God-state fulfills its historical role.

Question: Are you trying to justify Stalin? Answer: we are logicians, we are Hegelians. We show the laws of dialectics.

The socialist state is different from capitalist state. And therefore the above description of the Stalinist USSR is incorrect. Only Lenin's theory of the duality of socialism gives a correct assessment.

The second half of the assessment of the USSR.

It is impossible to unite by force the peoples living in the mountains of Tajikistan, Siberia and other places. There was not only a ROBOT-State under socialism. There was also the communist IDEA of equality and brotherhood. That IDEA united the peoples into the great USSR. It was impossible to win the Great War without the brotherhood of peoples.

The old form of brotherhood is no longer relevant. New USSR is inevitable in the form of a global commune.

How did Hegel prove the coming of the great Stalinist state and the coming of Stalin?

Theorem. The metaphysical idea of the STATE (pyramid) is a living IDEA. And a living idea always strives to reach the pinnacle.

How did Hegel predict the death of the great socialist state, the death of the USSR?

Hegel's theorem. The state is a metaphysical category. And metaphysics must die.

Here we apply Hegel's method of idealism to the homosexual movement in the West.

God-homosexuality in Western countries.

The dark IDEA of mass homosexuality is flying over the planet. This Idea also wants to materialize and reach the pinnacle. Therefore, it is looking for a body, great homosexual. The Idea says to its

great priest: “Serve me faithfully and create a completely homosexual society. All men should cut off their penises and make vaginas. All women should sew up their vaginas and sew penises. And I will give you immortality. And I will take you to homosexual heaven. I will make you the God of Homosexuality”.

Hegel’s idealism.

The goal of the homosexual movement is to turn all men into “women” and all women into “men”. That is why homosexuals conduct aggressive propaganda.

The theory of degeneration of a metaphysical pair.

1. The goal of a dead metaphysical pair is to come to life. It wants to become a dialectical pair. And the dialectical pair is constantly inverted.
2. If a metaphysical pair cannot turn into a dialectical pair, it turns into a degenerate pair.
3. The law of inverting pair was discovered by Karl Marx.

That is the second proof that homosexuals try to turn the entire population of the country into homosexuals. God-IDEA of homosexuality wants to materialize.

The theory of the degeneration of the metaphysical pair and the law of time reversal (ALLEGED-LY).

The first living cell was an asexual being. It was an amoeba cell. During the evolution it was divided into male and female organisms. Evolution begins to move backwards at the moment of death or degeneration of an organism.

Consequence. The Americas and Western countries are turning into societies of asexual beings, into a society of political economic amoebas.

Consequence. Communism is late.

The transition of women into men in dialectics, not metaphysics

The transitions of men into women and women into men will continue under communism. But these transitions will be imaginative and beautiful.

Example. A million women fought in the Red Army for the life of the USSR. They fought face to face with the terrible and ferocious Germans. Only girls went to the battle against the dark god Gestapo (on reconnaissance).

“Warriors!” This is how commanders addressed them before mortal battles. They were real men!

Question: The IDEA of pure communism has already been here for a long time, so why is there no communism?

1. The people of the planet are the political economic dead. They are metaphysicians. It is hard to come to life. When the first man revives, it will be the victory. The first man will revive the second one.
2. “Who will go first with a new communard idea?”
3. There are no grandchildren of THOR and children of Odin left. They died in the world battles. There is no one to lift the logical hammer of the new Thor.

Was a rapid transition from socialism to communism possible? The plan of Marx and Lenin.

The experiment is needed here. Take a big factory with 100,000 workers and create a Commune-factory with shortened work week and single salary for all. Chiefs, accounting, personnel departments, secretaries, cashiers, trade unions, etc. are not needed. The workers should study and then work.

The fantastic superiority of the Commune over socialism and capitalism

The fantastic superiority of the Commune is due to the EMANCIPATION OF CREATIVITY. The emancipation of creativity will lead to the birth of a COLLECTIVE BRAIN, a collective consciousness. A hundred thousand people will start thinking. And one day people will generate a hundred thousand ideas.

The Commune factory will explode like a huge intelligent atomic bomb. Atomic explosions also occur in political economy. the LAW of the UNITY of the WORLD is Lenin's favorite law.

Faith in socialism will disappear. A new faith in the global Commune "YOU are the SAME as EVERYONE" will be born. In the same manner Marx was up to build pure communism in the Paris Commune.

Marx predicted a world communist, non-socialist revolution. Marx means that a chain reaction of a new communist, non-socialist idea will begin. And there will be a political economic explosion. Marx is A CATASTROPHIST!

The creation of the great Khudenko Commune is the merit of Khrushchev. 1962-1969 years.

Wikipedia. Ivan Nikiforovich Khudenko was a front-line veteran. He became the head of the department of financing state farms in the Ministry of Agriculture of the Kazakh SSR. Ivan voluntarily (!) left such a high position to realize his idea to become the director of the state farm and create a scientific commune.

Was there withering away of the state? There was.
There was no administration. Everyone worked! The office was empty. The driver came to an empty office, filled in an application, took a ticket and went to Almaty.
Was there a variable division of labour? There was.
The driver drove up to the excavator, climbed into the excavator and loaded his car.
It is impossible to introduce such a system under socialism. If a person works in different places, then his labour cannot be counted, and it is impossible to pay him. Theorem. Payment according to labour (wages) generates a rigid division of labour. Lenin persuaded that WAGES must be destroyed. Lenin is right. The leader is always right.
Was there the destruction of money in the political economic sense of the word? There was.
Khudenko called his system moneyless.
Was there the emancipation of creativity? There was.
The workers made many discoveries.
Was there the uprising of the idea? There was.
People were inspired by an IDEA. However, they did not understand that they were building communism, not socialism.
People had human non-machine relations. They were brothers.
Results.
Productivity of labour increased twenty times. The Khudenko commune defeated the USA, Germany, Sweden and socialism.
The defeat of the Commune and the death of Khudenko.
The Khudenko commune was defeated. He died in prison.
Socialism and communism are incompatible.

Wikipedia. The history of Communard. Translation of the Russian page.

The Communard movement in Russia is the last communist (not socialist) revolution. This revolution was led by the Komsomol members.

Under socialism, people as new Cro-Magnons have not been born yet. They were in the iron shell of the state. They were robots. Teachers addressed students by last name: “Ivanov, Petrov, Sidorov”. The same way they addressed each other in the Komsomol.

But time passed. The great achievements of socialism benefited people. Many people got higher education. People changed. They did not want to be robots anymore. And there was a transition to human relations. Komsomol chiefs and ordinary Komsomol members began to call each other by name. Komsomol members turned into brothers.

History of the movement

In 1956, a youth association “Union of Enthusiasts” was created in Leningrad for pioneers on the initiative of the professor of the Leningrad State Pedagogical Institute I.P. Ivanov.

Enthusiasts studied the experience of S.T. Shatsky and A.S. Makarenko, the pioneer movement of the 1920s, and the ideas of A.P. Gaidar. The term “commune” indicated an adherence to the experience of the Makarenko commune.

There were voluntariness, collective planning, execution and collective evaluation, alternation of creative assignments, rotation of elected leaders, special meeting with conversations (when everyone speaks frankly about everyone, including about adult), observance of traditions, regular retreats and summer camps for work and recreation.

In 1963 Communards came into “Orlioniok”, then brand new All-Russian children’s camp on the Black Sea coast. The camp has been designed to bring in Pioneer and Komsomol activists from all Russian regions for an educational experience in social activism, along with recreation. “Orlioniok” quickly adopted Communards’ ideas, and became sort of a national center for dissemination of the Communards’ movement.

The idea spread throughout the country. The largest centers of the Communard movement were in Moscow, Leningrad, Perm, Chelyabinsk, Sverdlovsk, Tula, Voronezh, Kharkov, Kiev, Donetsk, Odessa, Minsk, and Petrozavodsk.

The Communard movement brought up several generations of enthusiastic teachers and thousands of schoolchildren and adolescents (mid-1960s).

Here is the song-slogan of the communards:

“There are no chiefs in the commune, the owner is collective,
and who is the chief, he is a vile, pathetic and defective!”

Originally: «В коммуне нет начальства, хозяин – коллектив,
а кто начальство корчит, тот гнусный жалкий тип!»

The commune stands against the chiefs, i.e., against the socialist state. The experience of the communard movement shows that the transition from socialism to pure communism was possible.

The Communards felt that they were doing great things, but they did not understand that they were leading a communist revolution. The goal of this revolution was to abolish the socialist state and establish Communes. Chiefs were needed only when people could neither read nor write.

Results. There were many signs of pure communism within socialism. It is impossible to describe all of them.

§16.8. Lenin compiled a table of categories of political economy of communism. But no one knows it!

Lenin. Table of categories of the political economy of Communism, not socialism	
Hegel's theorem	Lenin's theorem
The categories of communism are dialectical	The categories of communism start with -SELF
Variable division of labour	SELF-MOVEMENT (Lenin)
Variable classes	SELF-ORGANIZATION (Lenin)
Variable control	SELF-DISCIPLINE (Lenin)
Variable private property	SELF-MANAGEMENT (Lenin)
Variable tribes	SELF-PROPAGANDA (Lenin)
Variable political economic nationality	SELF-PEDAGOGY
Variable political economic family	SELF-MOVING (Lenin)

Chapter XVII. The contents of the author's book V "Marx has already prepared the theory of the CULTURAL REVOLUTION of COMMUNISM (not socialism)"

17.1. Marx's theory of the universal man or every child is a genius

There are many books about the genius of children, but the authors' book is the only one in the world. We are Hegelians, we are logicians. Our book is Hegelian, i.e., logical. It is written with axioms and theorems.

AXIOM No.1. ABILITIES are not BIOLOGICALLY HERITABLE. Let's assume that this axiom is true. Many consequences can be deduced from it.

AXIOM No.2. ABILITIES are BIOLOGICALLY HERITABLE. Let's assume that this axiom is true. Many consequences can also be deduced from it.

This approach led us to Marx's theory of the UNIVERSAL MAN. Marx's theory of the universal man is the greatest theory of Marx. It is a PROGRAM of the CULTURAL COMMUNIST (not socialist) REVOLUTION.

Thus, it turned out that the theory of communism is completely ready. And Marx has already prepared the program of the cultural communist revolution.

17.2. Marx's DISCOVERY of a new POLITICAL ECONOMIC (spiritual) EVOLUTION. We are starting with political economic monkeys.

During the anthropological evolution, an anthropoid ape turned into a human. Human beings are the pinnacle of anthropological evolution. But Marx declares man to be the BOTTOM of a new political economic evolution. Marx declares capitalism to be a society of political economic animals.

Competition reigns under capitalism. People live, just like animals, eating each other. So, the people of capitalism are noble, political economic animals from the point of view of the ESSENCE.

The people of capitalism look like people (not monkeys or wolves), but it is illusion. It is APPEARANCE according to Hegel. Diogenes was looking for PEOPLE in the daytime with a lantern. He did not find PEOPLE in the highest divine sense of the word.

Capitalism is a world of business sharks, bitches, chicks, animals (movie titles). The people of capitalism call themselves sharks, bitches, chicks, animals, jackals (movie titles). They feel themselves like animals, and they are proud of the fact that they look like ferocious representatives of the animal world. And there is no movie called "HUMAN".

So, we are starting from scratch according to Marx. We are political economic apes or even political economic sharks, and we need to evolve again. We need to become "HUMANS", new political economic CRO-MAGNONS.

17.3. Marx's theory is the doctrine of the NEW POLITICAL ECONOMIC CRO-MAGNONS.

POLITICAL ECONOMIC (spiritual) EVOLUTION of MARX		
CAPITALISM	SOCIALISM	COMMUNISM
Society of political economic apes	Society of political economic robots, loyal Stalinists and the	Society of political economic people

	first Communards	
Society of political economic animals	Half-humans, half-apes	New political economic CRO-MAGNONS
	Society	
POLITICAL ECONOMIC ANIMAL	HALF-HUMAN, HALF-APE	HUMAN is the new Great Cro-Magnons
There is no COLLECTIVE MIND. There are terrible teeth of new business sharks	The embryo of the COLLECTIVE MIND	The COLLECTIVE MIND and the collective human political economic consciousness WERE BORN

Marx spoke twenty languages, including Russian. But it turns out that Marx is not a genius from the point of view of the theory of communism. Neither Gauss nor Kolmogorov are geniuses from Marx's point of view. They are ordinary new political economic Cro-Magnons, and we are apes.

They were the first political economic Cro-Magnons, and now they lead us. Under communism, everyone will become talented; everyone will become the new political economic Cro-Magnons. A detailed description of the political economic evolution of Marx is introduced in the book of the authors.

The authors' theorem No.1. There is NO ABILITY. There is CONSCIOUSNESS.	
No mathematical ability.	There is a mathematical consciousness.
No musical ability.	There is a musical consciousness.
No theatrical abilities.	There is a theatrical consciousness.
Results. What people think of as an ability is actually consciousness.	
Theorem No.1. ABILITY IS CONSCIOUSNESS!	
Theorem No.2. Consciousness is born during the social evolution.	

An analogue of the law of value under communism.

1. ABILITY is the VALUE of communism.
2. VALUE (ability) is created by LABOR of increasing complexity.

Example. If a mathematician has been working at the same level for a long time, then he no longer creates the value of communism.

Marx's theory of the Cultural Revolution

The Universal Communist Cultural Revolution		
consists of the universal		will give birth to ... consciousness
mathematical	revolution	mathematical
musical		musical
dance		dance
sports		sports
theatrical		theatrical
		will give birth to
		mathematical (political economic) brain
		political economic ears
		political economic legs
		political economic arms, legs
		political economic face

biological		biological	biological brain
chemical		chemical	chemical brain
work		work	political economic arms

The total communist revolution will create new types of evolution: mathematical, physical, musical evolution and so on.

Who is a brilliant violinist from the point of view of communism?

Can this violinist prove the Pythagorean Theorem? He cannot. That is not good, as here is the modern world, and he still lives in 500 BC. No mathematical consciousness, no physical consciousness. He cannot do anything with his arms. He is armless violinist with no brain.

He is a political economic ape. He is 5% musical person and 95% political economic ape. Why?

The capitalist elite likes trained musical monkeys. Pull the musical monkey’s tail to hear Beethoven’s music, and pull the second time to hear Mozart’s music. Excellent!

Communism does not need trained musical monkeys. Under communism, everyone will receive all forms of consciousness. And they will become 100% human in the highest divine sense of the word.

Everyone will play music under communism. Everyone will compose music and lyrics, write poems, paint pictures. Everyone will develop all forms of consciousness.

The communist revolution is the SECOND TRANSITION from the political economic apes to the NEW POLITICAL ECONOMIC CRO-MAGNONS.

This is Marx’s theory of the UNIVERSAL HUMAN of communism.

Marx’s theorem. The human of communism will develop all forms of consciousness, and will become 100% human in the political economy of communism. He is the new divine political economic Cro-Magnon. There will be no political economic musical monkeys under communism.

Who will lead the mathematical communist revolution?

Mathematicians of the city will occupy the bank building, form a mathematical commune, and organize the central congress. This huge Commune will start a mathematical revolution. The goal of the revolution is to give every child mathematical consciousness. The commune will turn mathematical monkeys into mathematical people.

Physical, chemical, theatrical and sports communes will be formed. There will be a struggle, which will give birth to the Marx’s universal human.

Each Commune will clean its places and cook its own food. There will be no slaves, no COMMON PEOPLE. Everyone will receive higher and working education. COMPLEX PEOPLE WILL BE BORN.

On the ROLE of the AUTHORS in the DEVELOPMENT of the THEORY of COMMUNISM

We have included only one POLITICAL ECONOMIC category into Marx’s political economy, and that is it. It turns out that the theory of the leaders of mankind is grandiose, very beautiful, and that it has been ready for 200 years. But the stupid and lazy left-wing intelligentsia exploits the COM-

MON PEOPLE with the help of an unfair division of LABOUR. Intelligentsia is unable to understand the world of dialectics and communism.

§17.4. Hegel and Marx created the UNIVERSAL (!) POLITICAL ECONOMY

Not many people will understand the meaning of the words UNIVERSAL POLITICAL ECONOMY, but those who understand will be shocked.

We have the following sciences: the political economy of the primitive commune, the political economy of the slave-owning system, the political economy of the feudalism, the political economy of capitalism, the political economy of communism. These are different sciences that do not have any common category.

Hegel and Marx decided to create the UNIVERSAL POLITICAL ECONOMY for the entire history of mankind.

It is necessary to give definitions and theorems that are appropriate for all societies in order to create the UNIVERSAL POLITICAL ECONOMY. Is it possible? Is it possible to give a definition that is appropriate for the primitive commune, for capitalism and for communism? Yes, it is!

Example 1. Marx's THEORY of REWARD.

It is clear that there should be a reward under both capitalism and communism.

Marx's theorem. The certain place in society can be reward for a person.

The definition of Marx is applicable for all societies, but it is necessary to describe Marx's definition in detail for each epoch. So, we need to include additions to Marx's definitions in each epoch.

Example 2. Definition of religion according to Hegel.

Definition. Religion is a FAITH in the IDEAL. This definition is applicable for any epoch.

Metaphysical, rigid religion is the world religions. But Hegel's dialectical religion is the faith of scientists in their science. There are permanent transitions in dialectics:

$$FAITH_1 \rightarrow MIND_1 \rightarrow FAITH_2 \rightarrow MIND_2 \rightarrow \dots$$

Example 3. Definition of private property according to Hegel.

Definition. PRIVATE PROPERTY always means a PERSON according to Hegel.

Definition. Private property is the property of ONE PERSON.

These definitions are applicable for any epoch. They are also applicable for the theory of communism.

Communism. Example. I came up with the idea of a new telescope and told my friends about it. I came to the administration, and now five factories make my telescope.

I am a temporary, dialectical capitalist. I am a temporary owner of the workers of these factories. They work for me. They are my temporary, DIALECTICAL PRIVATE PROPERTY.

The temporary CONTROL SYSTEM is created for the construction of the telescope. When the task is completed, the temporary control system DIES. Communism is not a state MACHINE. The Global Commune is a LIVING ORGANISM. Every day something is born and something dies.

MORAL of the STORY

The bottom line is that EVERYTHING has been ALREADY DONE by Hegel, Marx, Engels, Lenin, and Chernyshevsky.

Everything has been already discovered. No one after Lenin has been able to add a SINGLE NEW CATEGORY! No new category. The left-wing movement is zero. The left-wing movement is dead. It shows that socialism died of old age. It is time for pure communism.

We have reached the finish line of history. Communism will be built, bypassing socialism. And communism will be built peacefully if people follow HEGEL'S IDEALISM.

Hegel's idealism. It is necessary to kill the DARK IDEA of elitism.

According to Lenin, "Dark ideas must be killed in OURSELVES, in our hearts".

We have collected the categories in tables and demonstrated that categories are really evolving. According to Hegel, only the EVOLUTION of categories and laws (IDEAS) gives truth.

§17.5. The PROGRAM of a COMMUNIST (not SOCIALIST) REVOLUTION.

1. Destruction of the MONOCRACY (commands). Communes are formed at all levels of management.

Example. The General Staff will be managed by the Commune of Senior Generals.

2. Marx. Destruction of money. Lenin: "The destruction of wages, the destruction of pensions". Unified wage of, let's say, 1,000 dollars to each person. Generals, soldiers, priests, criminals, pensioners will receive the same wage.

It is necessary to study the experience of destroying money in Federal Republic of Germany after the war.

Here we do not need old government anymore. Any law is a division of money. If there is no money, the laws are not needed. There were no laws in Sparta. Accountants, cashiers, banks, HR departments are not needed anymore. We do not need chiefs and secretaries.

3. Marx: "The nationalization of children". The children will be supported by the Commune. Wages for each child can be about 500 dollars. Computers, phones, books will be free.

4. Destruction of the market and trade. Introduction of the principle of free-of-charge basis. Trade is not needed, the parasite must be destroyed. Free meals will be at all factories, schools. Then 70% of the products will pass by the trade.

Books, backpacks, pens, computers, tablets will be delivered to schools bypassing trade.

5. Living money must be killed. We need to break money's legs. Under communism, it will be impossible to transfer money from one card to another. Destruction of all banks.

6. Transport, theaters, all kinds of education are free.

7. Introduction of a three-day working week. The other 3 days everyone will study at universities.

Universal higher and working education.

8. Lenin: “COLLECTIVIZATION of MEALS”. Lenin: “The EMANCIPATION of WOMEN from home SLAVERY”. Meals at factories, schools, universities are free. Why is it good? Cooking can be automated.

9. It is necessary to organize large dining rooms on the ground floors of multi-storey buildings. The first floors can be for clubs and meetings of the residents of the house. The apartment house will be a new variable tribe.

10. Refrigerators, televisions, vacuum cleaners, washing machines will be free.

11. Destruction of the housing market. Nationalization of housing. All private houses will be nationalized. So it will be possible to live and exchange house, but not to sell it.

Unified and open housing exchange system. Creation of a special housing fund for exchange.

12. Destruction of the car market. Nationalization of cars. So it will be possible to drive, but not to sell it.

13. Marx’s program is the NATIONALIZATION OF HUMAN. The arms of workers, the legs of dancers, the heads of scientists, the ears of musicians will be nationalized.

14. The program of the Cultural Revolution. Marx’s theory of the universal man.

It is necessary to organize Communes of mathematicians, physicists, sportsmen, chemists and give them buildings, computers, meals. So mathematical, physical, sports, theatrical revolution will start.

15. Marx’s theory: “The DESTRUCTION of LABOUR”. The LABOUR category will die. The category CREATIVITY will replace it in the political economy of communism.

The RIGHT to CREATIVITY and the duty to LABOUR.

Everyone should also engage in creative labour.

Question. Is the labour of surgeons’ a creative labour? No, it is not creative.

Definition. Creative labour is labour that is performed in free time, not working time. It is necessary to form the Commune “Surgeon”, where surgeons will work one day a week. There they will find something else to do. Science is mandatory. Variable division of LABOUR. All 100% of people will be engaged in science under communism. There will be no common workers. The workers as a class will be destroyed by the merger into the GLOBAL COMMUNE.

Communism is a system of WORKERS-SCIENTISTS.

16. Introduction of TOTAL SELF-SERVICE. Self-service will be introduced in all universities and institutions. Scientists will cook meals and wash toilets one by one once a week. They will not have slaves as common people. At universities people will work for 3 days as workers, and then they will study for 3 days as scientists.

17. The intelligentsia as a class will be destroyed by the merger into THE GLOBAL COMMUNE. Intellectuals will stop exploiting the COMMON PEOPLE with the help of a cunning division of LABOUR. Intellectuals should also work and serve themselves.

18. Marx: “The production of communism is the PRODUCTION of HUMAN”. There will be transition from the production of things to the production of human. Communism will produce millions mathematicians, physicists, sportsmen, artists, musicians.

Realization of Marx's idea. We need to destroy art as a spectacle. Theaters will be turned into theatrical schools, which will produce millions actors. Hundreds of pupils from nearby schools will study there. So students will develop their theatrical consciousness. The old theater buildings are not applicable for communism. We need to build new ones with dozens of scenes where dozens of students will learn to play.

19. Hegel: "It is necessary to destroy the permanent division of LABOUR and replace it with a variable, dialectical one".

Theater Commune. The director's power is destroyed. His right passes to the collective. All 100% of people are actors in the Theater Commune. Everyone is an actor, an illuminator, a cleaner, a repairman, and a cook there. There is no slave.

§17.6. The power structure under communism.

City commune includes factories, hospitals, universities (not people). The factory can change its representatives in the city commune every day.

1. Lenin: "Elections are organized on the basis of production, not territory".
2. The central commune includes not PEOPLE, but ENTERPRISES.
3. Power is a process of factorization under communism. The FACTOR-GROUP theorem accurately describes power under communism.

Example. The central city Commune.		
The central commune includes not PEOPLE, but ENTERPRISES.		
Enterprises in the central city Commune have		
Factory No.1	5 vacancies	Enterprises have the right to change their authorities at least ten times a day. Why? Because the authorities are not people, but enterprises. Natural inversion of people and ideas. Example 1. City commune faces the issue of computerization of the region. Then computer specialists come from factories and hospitals.
Factory No.2	6 vacancies	
University No.1	6 vacancies	
University No.2	4 vacancies	
Hospital No.1	3 vacancies	
Hospital No.2	3 vacancies	

§17.7. The FACTOR-GROUP theorem describes the power structure under communism

Definition. Two people are equivalent to each other if they work at the same enterprise.

Theorem. The Central Commune is a factor set according to the introduced equivalence relation.

Consequence. Each enterprise is included in the factor-set (central Commune) as a whole.

There is communist equality and communist inversion theory in the factor-group theorem.

In this theorem, the correctness is proved by an operation group on a FACTOR-GROUP. All elements of the classes are multiplied in the proof. Thus, the INVERSION of all the ELEMENTS of the group is organized.

Results. We tried to convince readers that: "The central commune includes not PEOPLE, BUT ENTERPRISES".

In fact, it is not so scary. The modern city government is mainly engaged in the parasitic division of money. There will be no such work under communism. If there is no money, people's relations will become fraternal. That is the main thing. People will also change. They will become great.

How can communards win the elections? How?

Answer: Factories need to be selected. One factory can have 20 candidates; the other can have 30 candidates. The number of candidates must be large in order to oust all bourgeois parties from the authorities.

Factories should not choose masters, chiefs, workers with delusions of grandeur.

Slogans. Do not vote for one, he is going to be smashed. Vote for the factory. Together, we are invincible.

§17.8. On the scientific name of the party that builds communism, not socialism.

Name theorem.

1. The parties building socialism and the socialist state are socialist parties, not communist ones. There were no pure communist parties except for the stage of Lenin.
2. All left-wing parties are semi-communist-semi-bourgeois according to Lenin's theory of the duality of socialism.
3. The pure communist party aims to abolish the socialist state. The communist party stands against the socialist parties in the struggle for communism.
However, they work together against capitalism (according to Lenin's theory of the duality).
4. According to Hegel's idealism, the pure communist party should be an IDEAL PARTY. The members of this party are united by an IDEA. There are no commands in this party. The party apparatus are the State, a machine of coercion; therefore, the party apparatus should be destroyed in the party. Dispatching instead of monocracy. People are not robots.
5. The party building communism must be a PARTY COMMUNE. It will be born soon, and a chain reaction of uprising of non-primitive scientific Communes will begin!

What should this party be called?

It should be called communist party. But left-wing movement call themselves like this, and they are all socialist. They are for the state, what means they are against communism. There is confusion.

We suggest calling party communes COMMUNARD PARTY. And its members can be COMMUNARDS.

Question. Did Lenin name his party incorrectly?

1918. The 7th Congress of the RCP(b). The renaming the RSDLP(b) into the RCP(b).

Answer:

1. Lenin also built pure communism. He made the name of the party for himself. He did not think he would die so soon. But Lenin forbade other left-wing parties to be called communist.
2. The decision was forced. As all the socialist parties in Europe voted for war and became pure bourgeois parties. It had to be different.

Lenin's conversation with the delegates of Mongolia

The third question of the delegates of Mongolia:

“Should the people's revolutionary party turn into a communist one?”

Lenin's answer: "I do not recommend this, since it is impossible to 'turn into' another party. Just changing the sign is harmful and dangerous".

Source: <https://leninism.su/works/83-tom-44/957-beseda-s-delegaczij-mongolskoj-narodnoj-respubliki.html>

<https://leninism.su/> is the only one site in Russia dedicated only to Lenin. All left-wing sites of Russia abandoned Lenin.

The danger that Lenin spoke about happened.

1. The left-wing parties are called communist, but they are socialist, i.e., semi-bourgeois, semi-communist. And in fact they have nothing to do with communism, Marx, and Hegel.
2. They have misled the working class of the entire planet.
3. They call socialism with cleaners a fair communist system!

But the poop of the general secretaries also smells like the poop of capitalists.

Lenin's theorem of the duality of socialism is applicable to all the left-wing parties on the planet.

All left-wing parties have bourgeois features.

- 1) They all stand for a socialist state, which is a machine of coercion.
- 2) They are all against real equality, i.e., pure communism. They cannot fight for equality, since there is no words "Real equality" in their programs.

Hegel's theorem. The principle of equality is incompatible with the state. Question. Did Hegel follow the principle of equality?

- 3) They are against universal higher education.
- 4) They want to exploit the COMMON PEOPLE for all the thousands of years of new socialism.
- 5) They are against the destruction of money. The left-wing intelligentsia loves money and cash bonuses for the title of professor or doctor of sciences.
However, a dissertation is a capital according to Marx. Past work dominates future work in the dissertation.
- 6) The words "money, pension, bonuses" in their programs are more common than in the programs of some capitalist parties.

Marx, Engels, Lenin forbade all left-wing parties to insert the words "Socialist state" into the party program.

Lenin's work "The State and Revolution"

Надо иметь в виду, что это письмо относится к партийной программе, которую Маркс критиковал в письме, помеченном всего несколькими неделями позже данного письма (письмо Маркса от 5 мая 1875 года), и что Энгельс жил тогда, вместе с Марксом, в Лондоне. Поэтому, говоря: "мы" в последней фразе, Энгельс, несомненно, от своего и Маркса имени предлагает вождю немецкой рабочей партии выкинуть из программы слово "государство" и заменить его словом "община".

Какой бы вой об "анархизме" подняли главари нынешнего, подделанного под удобства оппортунистов "марксизма", если бы им предложили такое исправление программы!

Пусть воют. За это их похвалит буржуазия.

А мы будем делать свое дело. При пересмотре программы вашей партии совет Энгельса и Маркса безусловно следует принять во внимание, чтобы быть ближе к истине, чтобы восстановить марксизм, очистив его от искажений, чтобы вернее направить борьбу рабочего класса за его освобождение. Среди большевиков, наверное, противников совета Энгельса и Маркса не найдется. Трудность будет, пожалуй, только в термине. По-немецки есть два слова: "община", из которых Энгельс выбрал такое, которое *не* означает отдельной общины, а совокупность их, систему общин. По-русски такого слова нет и,

Image translation: It should be borne in mind that this letter refers to the party programme which Marx criticized in a letter dated only a few weeks later than the above (Marx's letter is dated May 5, 1875), and that at the time Engels was living with Marx in London. Consequently, when he says "we" in the last sentence, Engels undoubtedly, in his own as well as in Marx's name, suggests to the leader of the German workers' party that the word "state" be struck out of the programme and replaced by the word "community".

What a howl about "anarchism" would be raised by the leading lights of present-day "Marxism", which has been falsified for the convenience of the opportunists, if such an amendment of the programme were suggested to them!

Let them howl. This will earn them the praises of the bourgeoisie.

And we shall go on with our work. In revising the programme of our Party, we must by all means take the advice of Engels and Marx into consideration in order to come nearer the truth, to restore Marxism by ridding it of distortions, to guide the struggle of the working class for its emancipation more correctly. Certainly no one opposed to the advice of Engels and Marx will be found among the Bolsheviks. The only difficulty that may perhaps arise will be in regard to the term. In German there are two words meaning "community", of which Engels used the one which does not denote a single community, but their totality, a system of communities. In Russian there is no such word, and we may have to choose the French word "commune", although this also has its drawbacks.

The leaders demanded that only the "Commune" or the "global Commune" be inserted into the party program. Lenin gave the correct definition of the global Commune as the Commune of Communes.

Lenin's verdict on all modern left-wing parties

Какой бы вой об "анархизме" подняли главари нынешнего, подделанного под удобства оппортунистов "марксизма", если бы им предложили такое исправление программы!

Пусть воют. За это их похвалит буржуазия.

Image translation: What a howl about “anarchism” would be raised by the leading lights of present-day “Marxism”, which has been falsified for the convenience of the opportunists, if such an amendment of the programme were suggested to them!

Let them howl. This will earn them the praises of the bourgeoisie.

Results:

1. Lenin considers all the left-wing parties opportunists.
2. Lenin contemptuously calls the general secretaries of the left-wing party “ringleaders”.
3. Lenin calls all the left-wing parties bourgeois.

Lenin: “This will earn them the praises of the bourgeoisie”. Why? They are absolutely safe, and the workers feel it. All the left-wing parties stink of bourgeois poop of inequality and elitism.

4. The left-wing parties must build communism mainly in their own party. They must destroy the party machine of coercion by expelling the general secretaries and turn into a party commune. Otherwise they should disappear. No third is given.

The left-wing parties confuse billion workers of the planet with the names Marx, Engels, Lenin, and Hegel. However, in fact they are their opponents. Therefore, not a single left-wing party in Russia wanted to be called Leninist.

Lenin was right: “The left-wing intelligentsia is a bourgeois class”. And it does not like pure communism. The intelligentsia wants to exploit the COMMON PEOPLE through unfair division for all the thousands of years of the second socialism! The intellectual class is rotten and stinks. People need to leave this stinking class and come to the Global Commune, to workers-scientists. It is clear that left-wing intellectuals also does not like Hegel’s theorem on the abolition of the division of labour. Communism is the SECOND GOING to the PEOPLE, to the Global Commune. And we will not leave the people anymore.

On the scientific name of the future revolution.

It should be called the communard revolution or the communist (not socialist) revolution.

§17.9. The best collection of Karl Marx, Friedrich Engels, Vladimir Lenin: “SOCIALISM AND COMMUNISM”.

Edited by: V.P. Kuzmin, G.A. Bagaturia, S.E. Grechikho, V.P. Kuznetsov. Moscow, POLITIZ-DAT, 1986, 495 pages.

This is a one-volume book. The shorter the collection, the more fundamental it is. Everything is there. The deepest gratitude to creators.

THIS BOOK SHOULD BE REPRINTED CONSTANTLY.

Lenin: “Study, study, study communism”, not socialism!

Marx, Engels, Lenin: “Study Hegel’s dialectics”.

§17.10. Russian way

In 1874, the first communist (not socialist) revolution was in Russia. It was called The FIRST GOING to the PEOPLE. The students moved into communism.

The theorist of going to the people, Pyotr Lavrov:

“INTELLECTUALS! Return the FAVOR to the people!”

The embodiment of this great idea in the PROGRAM of the revolutionary youth of 1874:

“Be able to turn into a WORKING MAN!”

Practical realization of this greatest idea in the history of mankind by students in 1874:

Students left universities **and CREATED WORKSHOPS**, handicraft enterprises and worked in **them as workers!**

The authors are fanatical Hegelians. And therefore we are obliged to rework Lavrov’s theory of “Going to the people for BLACK LABOUR” with the help of Hegel’s dialectic.

The theory of the leader of the narodniks P. Lavrov “Going to the people for black labour” in Hegelian form.

Intellectuals! The class of intellectuals is a METAPHYSICAL, e.g., PERMANENT, e.g., DEAD CLASS. The class of intellectuals is a dead class; it is the class of the dead. And you are the dead of history.

Intellectuals! Leave the METAPHYSICAL (dead) CLASS for the DIALECTICAL (living, variable) class WORKERS-SCIENTISTS. And you will come alive!

Come to life the dead of history, come to life. There is a LIVING WATER of history, there is. And the God of LOGIC, the great Hegel, boiled this living water in the cauldron of history.

Communism is the Russian way. It is paradise for humanity. Russians will return to their commune, from which they grew up. And this is the GLOBAL COMMUNE. You will have millions of sisters, brothers, aunts, and grandparents. And you will be happy forever. You will throw away the stinking money. You will not sell, you will give.

The Russian way is a return to the Mother, to the Great Mother Goddess LADA (theory of personification).

And for 150 years now, Russians have been following the fiery path of communism, Russian path to the Great Mother Goddess:

1874 – The first Going to the People.

1905 – The Russian Revolution.

1914–1918 – World War I.

February 1917– the bourgeois revolution.

October 1917– the Socialist Revolution.

1917–1922 – The Russian Civil War.

1917–1924 – Allied intervention (Entente attack) in the Russian Civil War.

England and its allies Australia, India, Canada captured the cities of Arkhangelsk, Murmansk, Novorossiysk, Transcaucasia (Batumi, Baku), Vladivostok, the Caspian Sea, the Baltic Sea, etc.

The United States captured Murmansk, the Trans-Siberian Railway to Vladivostok.

France captured the South of Russia: Odessa, Kherson, Sevastopol. It consists of colonial forces: African, Algerian, Indochinese, Senegalese.

Japan captured the Far East. The intervention involved the forces of Italy, Greece, Poland, Romania, Finland, and Denmark.

1919–1920 – Attack of Poland and Latvia. Poland captured Belarus and part of Ukraine. This is a small part of the attacks of foreign states on revolutionary Russia.

The enemy was coming from all sides to revolutionary Russia. But the revolution defeated the Entente. Why? Lenin: “We took away soldiers from the Entente”. Entente soldiers and sailors took a side with the revolution.

1932–1933 – The Soviet famine.

1929–1941 – Industrialization and collectivization in the Soviet Union.

1941–1945 – The Great Patriotic War (The Eastern Front of World War II). This was not a war with Germany. All of Europe attacked the USSR.

<https://gazeta-vp.ru/soyuzniki-gitlerovskoj-germanii-voevavshie-v-vojne-protiv-sssr-kto-oni-byli/>

On the Eastern Front:

Romania – 700000 soldiers. Romania is a supplier of oil for German tanks.

Finland – 340000 soldiers. The encirclement of Leningrad was impossible without the Finnish army. Finland is also to blame for the deaths of millions of women and children from starvation.

Hungary – 250000 soldiers. Hungarians near Voronezh brutalized the civilian population. And the soldiers decided not to take the Hungarians prisoner.

Italy – 230000 soldiers.

Czechoslovakia. It supplied tanks and other types of military equipment. Czechoslovakia was an advanced industrial power. Its excellent military equipment killed million soldiers of the USSR.

Slovakia – 36000 soldiers. SS Volunteer Grenadier Division Bohemia Moravia. A total of 70,000 Czechs and Slovaks were captured by the Russian.

The forces of Spain, Denmark, Norway, and Holland participated in the battle against socialism.

SS Panzer Division Wiking: Dutch, Belgians, Scandinavians.

SS Volunteer Panzer Grenadier Division Nederland. Destroyed by the Russians.

SS Volunteer Panzergrenadier Division Nordland: Scandinavians, Dutch.

SS Volunteer Grenadier Division Wallonia: Belgians, French, Spaniards.

SS Volunteer Grenadier Division Langemarck. Belgians, etc.

The entire economy of Europe served fascist Germany. Even France was actually an ally of Germany. Therefore, Germany could use ammunition indefinitely.

During this war the Russians and their brothers won with the greatest heroism. World War II losses of the Soviet Union from all related causes were about 27,000,000 both civilian and military.

1945 – The end of the war. Post-war famine in the USSR.

1945–1953 – The restoration of the USSR.

1953–1970 – New industrialization. Development of science.

1970–1985 – The quiet life of socialism.

1987–1991 – The crisis. The death of socialism. The dissolution of the Soviet Union.

Lenin's theory of the DUALITY of SOCIALISM. According to Lenin, socialism is a dual semi-communist-semi-bourgeois system. The state is a bourgeois, non-communist construct. The state will always evolve towards capitalism. Any chief is a cocoon from which a bourgeois butterfly flies. It is necessary to eliminate the socialist state and replace it with a Commune to build pure communism.

The Russian workers forgot Lenin and his theory of communism. For a long time they considered the socialist state to be communism. But during perestroika, the socialist state shot Russian workers in the back.

There are thousands of nations and billions of people in the world. They all fight for themselves, but Russians fight for everyone, for every living being in this world.

One hundred and fifty years of fierce battles: great victories and terrible defeats. This is the Russian way to communism, to Mother Commune.

The great killer CAPITAL shoots Russians at point-blank range, and the great traitor State shoots them in the back. This is the fiery Russian way to communism, to the Commune.

Russian Fairy Tale: The Battle on the Kalinov Bridge.

There are two worlds: the world of the dead and the world of the living. They are separated by the fiery river and Kalinov Bridge. Kalinov Bridge is guarded by Russian heroes. The God of Death and his servants strive to cross the Kalinov Bridge and destroy the world of the living. This battle on the Kalinov Bridge has been going on for thousands of years between the world of the living and the world of the dead. For thousands of years, Russian heroes have been holding back the attacks of the God of Death.

New Russian communist mythology. Nation on the Kalinov Bridge.

Years passed, but Russian mothers have always been telling their children the same thing: "Our children! We are standing on the Kalinov Bridge. We were born on the Kalinov Bridge. We will not leave the Kalinov Bridge. We will not leave our Mother Goddess alone. It is our Mother Russia".

Our children, today your fathers are fighting on the Kalinov Bridge, but tomorrow you will fight. "Study, study, study communism" (Lenin). Become geniuses and become equal to the gods to fight Capital and the state (command).

They are not people, they are immortal dark gods. They kill the millions. Dark gods were born thousands of years ago and are going to live forever. They are immortal, but you can kill them.

The dark IDEA of elitism is the soul of the dark gods. Kill the IDEA of elitism in your heart and the immortal creatures will die.

Hegel's idealism. We need to kill dark IDEAS, not people.

Lenin. Dark ideas must be killed in OURSELVES!

"Economics and politics in the epoch of the dictatorship of the proletariat" by Vladimir Ilyich Lenin

Теоретически не подлежит сомнению, что между капитализмом и коммунизмом лежит известный переходный период. Он не может не соединять в себе черты или свойства обоих этих укладов общественного хозяйства. Этот переходный период не может не быть периодом борьбы между умирающим капитализмом и рождающимся коммунизмом; — или иными словами: между побежденным, но не уничтоженным, капитализмом и родившимся, но совсем еще слабым, коммунизмом.

Image translation: Theoretically, there is no doubt that there is a certain transition period between capitalism and communism. It combines the features or properties of both of these ways of public economy. This transition period is a period of struggle between dying capitalism and emerging communism; – other words: between the defeated, but not destroyed, capitalism and the born, but still very weak, communism.

The Theorem of Russians. Russian theorem. Socialism is the Kalinov bridge of heroic Russian history			
	Capitalism	Socialism	Communism
Hegel	Metaphysics	Dialectics-metaphysics	Dialectics
Hegel	The world of dead	The world of half-dead	The world of living
Marx	The world of living money and dead people	The world of half-dead people and half-dead money	The world of living people and dead money (Marx's labour vouchers)
Marx	Why did socialism die? Half-dead socialist money came to life and destroyed the Russians.	Socialism is a transition period. It is a bridge between the world of the living and the world of the dead.	When MONEY (not bourgeois) dies, people will come to life.
Lenin		"Socialism is a period of struggle". Socialism is a BATTLE FIELD between the world of the dead and the world half-dead people.	When the living state, i.e., the COMMAND (not chiefs) dies, people will come to life.

The Kalinov Bridge of Socialism is the fiery Russian way. The battle with the world of the dead is the Russian fate. Everything is true in Russian legends.

Russians are neither gods nor people. They are the best of men and gods.

There are thousands of nations and billions of people in the world. They all fight for themselves, but Russians fight for everyone, for every living being in this world. The Mother Goddess whispers (theory of personification): "Win, sons, win!"

§17.11. The prophecy

Hegel's dialectic is the doctrine of a VARIABLE, LIVING WORLD, that is, pure communism. The state is a metaphysical, that is, a permanent, that is, a dead management system.

Under communism, there will also be a management system, but it will be dialectical, that is, VARIABLE, that is, ALIVE. Capitalism and socialism are METAPHYSICAL, PERMANENT, dead WORLDS.

Earth is the planet of eight million political economic dead. The dead do not know that they are dead (in political economy). It seems to them that they are alive.

Why is the planet now moving towards a third nuclear world war? Why is planet Earth committing suicide? Why are the peoples and states of the entire planet voluntarily moving towards death?

Answer. Because DYING is the work of the dead. That's the only thing they know how to do. And they will do their job thoroughly. The dead are unstoppable.

Where is the exit? How can humanity be saved?

Hegel pointed out the road to life, the road to the rebirth of mankind. WE NEED TO REVIVE THE DEAD. It is necessary to build a DIALECTICAL, that is, A VARIABLE, that is, A LIVING WORLD (pure communism). Hegel's dialectic is the doctrine of the LIVING WORLD.

Under communism, EVERYTHING WILL BE ALIVE, that is, dialectical, that is, VARIABLE. Under communism, there will also be CLASSES, but they will be dialectical, that is, variable, that is, ALIVE.

Under communism, there will also be PRIVATE PROPERTY, but it will be dialectical, that is, variable, that is, ALIVE.

Hegel's dialectic AS A TEACHING ABOUT THE LIVING WORLD has been absolutely ready for 200 years. But not a single person on the planet knows Hegel's dialectic. The dead don't see the LIVING WORLD.

So why hasn't the LIVING WORLD of communism been built yet?

It's all about the German prophecy. The prophecy must come true. There is no way without a prophecy.

Here it is:

"Where is the great German who will **PULL OUT**
THE HAMMER OF DIALECTICS FROM THE STONE OF
METAPHYSICS?"

When the prophecy comes true, then the German communist gods will return with the second coming: Hegel, Engels, Marx. Lenin and Chernyshevsky will come with them.

But there will be no battle, no political revolution. And what will happen? And what is written in the German myths?

It says there will be a REBIRTH FESTIVAL (the feast of the revival of the dead). And so it will be. Humanity WILL COME TO LIFE.

Millions of people will take to the streets. They will hug and kiss. The great unification of humanity will take place.

Millions of people in the squares will shout: "Long live Hegel. Our THOR has returned with the second coming!" As promised to return in German myths.

Communism is a PARADISE. Communism is a LIVING PARADISE, a PARADISE of the living.

Lenin's theorem. Communism, based on economics, is not reduced to it at all.

Lenin says that communism is a non-economic system. The goal of communism is to defeat the economy. It is necessary to free people from the struggle for existence, from the struggle for individual survival. According to Lenin, communism IS an IDEAL SYSTEM, communism is a PARADISE on planet Earth.

It is necessary to tear people away from the earth and direct their gaze into the sky, into the universe. Prometheus is Karl Marx's favorite titan. Prometheus raised people to "look at the sky."

The historical role of humanity

The task of humanity is to defeat the God of Death in the Universe. It is necessary to revive the universe and sow the universe with LIFE.

People are HEAVENLY PLOUGHMEN! It's spring in the universe, you have to plow. We need to plow the universe and sow it with life. Let's revive Venus. Our little brothers, microbes, will attack the God of Death. Millions dying and millions resurrecting, they will launch biological evolution on Venus. Microbes are heat machines. They cooled the Earth. They will cool Venus and Venus will come to life.

Lenin's theorem. Communism is a system in which there will be no trace of the past.

Lenin says that communism is an IDEAL SYSTEM, it is a PARADISE on Earth.

PUT IN A WORD ABOUT OUR LEADER

Lenin was wrong about Hegel's idealism. But we knew we had to follow Hegel. And Hegel's IDEALISM must be brought to the end, to the highest point. We have followed our beloved leader all our lives, we have always fought alongside him.

We began to tear ourselves away from various material categories, from money, from pensions, from the principle of material interest. It was difficult for us. Please note that we reached the highest point of Hegelian IDEALISM – the IDEA OF A LIVING PARADISE - only when we finished this book. And it was necessary to reach the highest point of Hegelian idealism.

Communism is an unreal system, it is a fairy tale, it is an impossible utopia. But communism is not just a utopia. A simple utopia will never come true.

COMMUNISM IS THE ULTIMATE UTOPIA!

Hegel's theorem. EXTREMES CONVERGE.

According to Hegel, only the HIGHEST UTOPIA will win. The highest utopia will surely come true.

To the leaders of the future of pure communism!

1. Strictly follow Hegel's IDEALISM.
2. The party program should be IDEAL, not material.
3. Communism is an IDEAL, not a material system.

Therefore, the title of the program of future communism should only be this:

COMMUNISM is a PARADISE on Earth. Communism is a LIVING PARADISE, A PARADISE OF THE LIVING.

The slogan of communism. Long live PARADISE on Earth! For the PARADISE of the living, for the living PARADISE. At dawn, the idea of pure communism will rise over the planet of people rotting alive. And THE IDEA will start looking for a BODY.

This one is weak, this one is greedy, this one is an elitist. But this young man is just right – he is the new CHE GUEVARA. Che Guevara – 17 working specialties.

Hegel's theorem. THE IDEA should find the BODY.

The idea of a new LIVING PARADISE will flare up. And millions of people in the squares will shout: "Long live PARADISE on Earth! For the PARADISE of the living, for the living PARADISE. For PARADISE, for PARADISE."

People are really waiting for PARADISE. They are waiting for a new deity. Why? Because PEOPLE are DIVINE beings.

Fantastically beautiful women of different nations. Wonderful songs of the peoples of the planet. Some people go down to the oceans and swim next to sharks, others study space. How beautiful young people are. Incredible dances of young people, their smiles, happy faces, love.

People! You are a miracle of the universe, you are beautiful, you are gods and goddesses.

But why do you live under capitalism, on this garbage of human souls and hearts? Socialism does not suit us either. Why did the Soviet people stop supporting socialism? Answer: "Because socialism is not a deity, not a PARADISE."

The political economic dead create dead theories and dead worlds.

Christian Paradise is the Paradise of the dead, communism of the dead.

Communism is the Paradise of the living.

We have brought Hegel's idealism to the highest point, to the highest utopia, to the PARADISE of the LIVING. And this means that we have completely completed the development of Hegel's idealism.

If we abandon Hegel's idealism, if we abandon communism as a PARADISE, then the left intelligentsia will again lead the peoples into socialism. And socialism is outdated, socialism itself has become a dead man of history. The IDEA of socialism has died in the souls of people. The IDEA died, and socialism died. And Hegel was right again. But the leader is always right.

The riddle of human history:

So who is

WILL HE PULL the HAMMER of DIALECTICS out of THE STONE of METAPHYSICS (German)?

WHO WILL GO FIRST (Russian)?

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Marx's capital is thermodynamics